Dry Battery connections

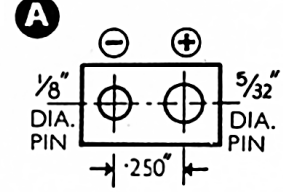
Older battery packs before 1938 used clip, wander plugs (3/32nds" or 1/8th", never 4mm) or studs to a holder. 1938 saw the introduction of the first 50mA 1.4V "All Dry" valves on Octal then Loctal base from Sylvania and late 1939 the B7G all glass Miniature RCA type used in US Radio sets from 1940 (not till 1946 in UK domestic). The large 1.5V & 90V four pin connector is actually a B4 valve base and plug, with the 1.5V at the filament positions and +90V at the g2 or Anode point. HT- is always isolated to allow bias and on the g1 or cathode position.

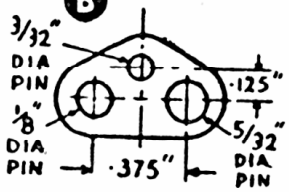
The larger snap fasteners (as on a PP9) were more popular on Continental 67V and 90V HT packs and smaller size (PP3) on 45V and 67V pack on USA and Japanese "Personal" radio sets. Most of the packs have different spacing to the Carr Fasteners.

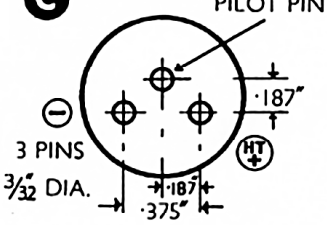
There were batteries in common world wide as well as specific UK/Ireland. Mallory (later renamed Duracell) made the UK Ever Ready in Ireland. The USA had specific types as did mainland Europe.
Older Siemens batteries in UK are London Siemens, founded by brother of the German Siemens.
Older Pertrix in UK and Germany had different part numbers for same battery.
Varta took over DEAC (NiCd packs) and Pertrix in Germany.
BEREC was Export UK Ever Ready, but 1981-1982 was UK Ever Ready. In 1996 the UK Ever Ready was taken over by USA Eveready (Black Cat logo originally Ever Ready was their brand).
The Indian Ever Ready sells NiMH under Uniross Brand. The South African Eveready is also still separate.
Daimon (Germany) and Superpilla (Italy) once owned by UK Ever Ready but sold (asset stripped) after the hostile take over by Hanson 1981/1982.
Main UK competitor to Ever Ready from 1934 was Vidor, sold in 1962. Later Mallory (Duracell) Pile Wonder was the major French Brand.
Batterijenfabriek van Herberhold (Witte Kat) was the major Dutch brand.
Hellensens was the very first Dry Battery maker, 10 years before US Eveready (NCC, Union Carbide and now Energiser). Tiger Logo.

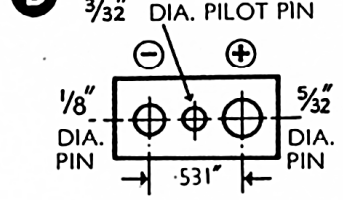
See www.blaukatz.com

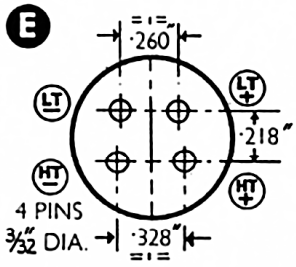
Contents

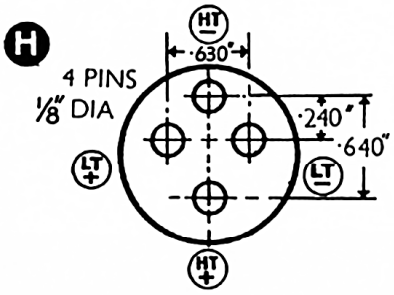


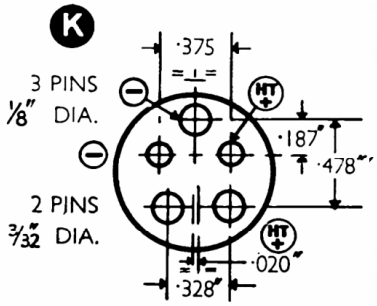


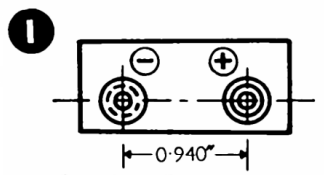




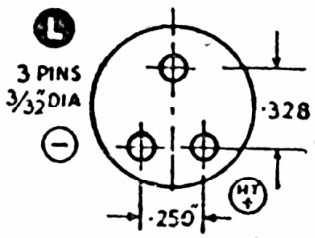


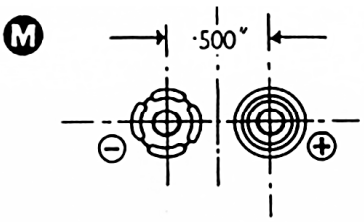




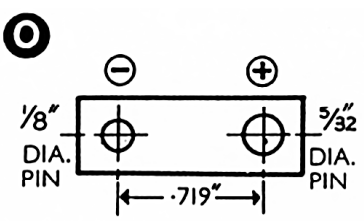


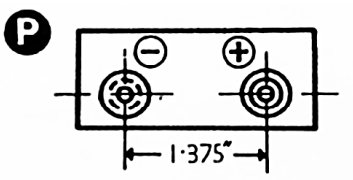
Carr Snap Fasteners
Positive Stud No. 82
Negative Socket No. 77/145



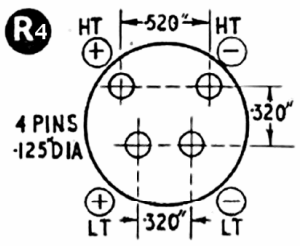


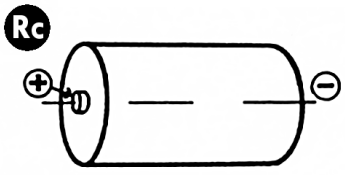
Miniature Snap Fasteners



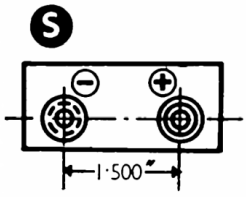


Standard Snap Fasteners

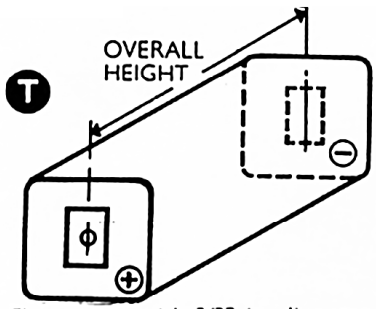




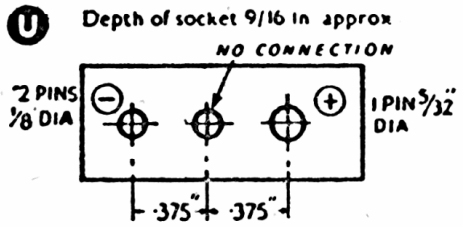
Single cell positive off brass cap
Negative off can

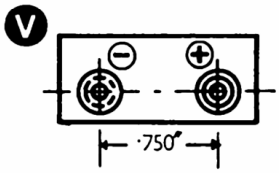


Carr Snap Fasteners
Positive Stud No. 82
Negative Socket No. 77/145

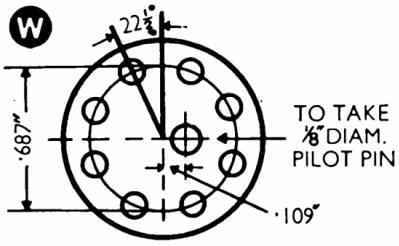


Flat contact with 3/32 in. diameter hole centred in each end. Height is distance between outside surface of each terminal

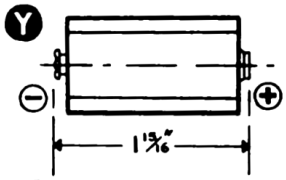




Carr Snap Fasteners
Positive Stud No. 82
Negative Socket No. 77/145



8 holes evenly spaced to take 3/32 in. diameter pins



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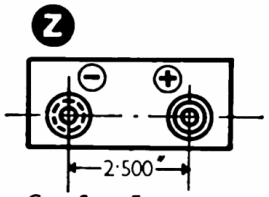

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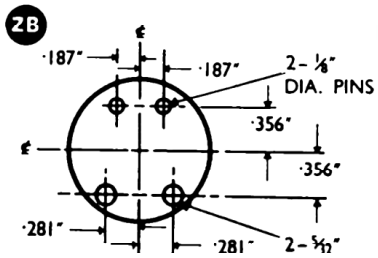
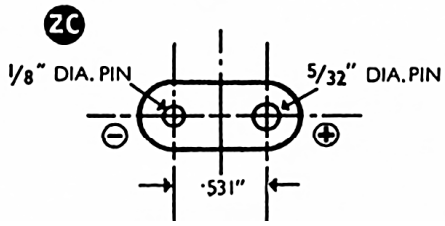
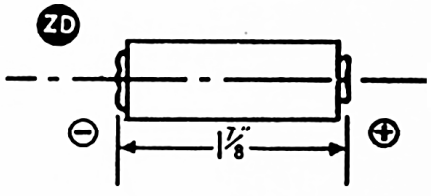






Use	Voltage	Type	Size in inches L	W	H	Socket	Weight lb.	oz.	Current Range m/a	Standard
Rx	1.5	DL25	1/4	dia.	2	4		1/2	1/30	W
Rx	1.5	DL21	1 1/8	1/8	2	(a)		1	15/60	W
Rx	1.5	DL14	1 1/16	dia.	3 7/16	1		2 1/8	20/100	B*
Rx	1.5	T20	1 1/8	dia.	2 7/16	4		3	25/100	W
Rx	1.5	T21	1 1/8	dia.	2 7/16	4		3	25/100	W
Rx	1.5	DL29	1 1/8	dia.	3 1/8	1		3 1/2	25/100	W
Rx	1.5	T25	1 1/8	dia.	2 15/16	4		4	25/125	B
Rx	1.5	G44	1 1/8	dia.	2 15/16	4		4 1/2	25/125	B
Rx	1.5	DL16	1 1/8	dia.	4 1/16	1		5	30/125	B*
Rx	1.5	H1184	3 1/2	2 1/8	1 1/2	1		9	50/250	B
T or B	1.5	H1185	3 1/2	3 1/2	1 1/2	1	1	2	100/250	B
T or B	1.5	H1158	2 1/8	2 1/8	3 1/8	1	1	5	100/250	W
T or B	1.5	H1168	8	1 3/8	3 1/2	1	1	9	100/250	B
T or B	1.5	H1178	5 1/2	2 1/8	2 1/8	1	1	10	100/250	B
T or B	1.5	H1155	2 1/8	2 1/8	5 1/8	1	1	11	100/250	B
T or B	1.5	BT11	2 1/16	dia.	6 1/8	(b)	2	2	100/250	W
T or B	1.5	H1182	7 1/2	2 1/8	3 1/2	1	2	14	150/300	B
T or B	1.5	H1183	5 1/2	2 1/8	3 1/2	1	2	1	150/300	B
A	3	2T15	1	dia.	3 13/16	4		3	20/60	B
A	4.5	F40	2 7/16	1/2	2 1/8	(c)	0	4	15/60	W
A	4.5	F50	3 1/2	1 1/16	3 7/16	(c)	0	9	20/100	B
A	4.5	H10	4 1/16	1 1/8	3 1/8	(d)		13 1/2	25/100	B
A	4.5	H30	4 1/16	1 1/8	3 7/16	(b)		13 1/2	25/100	B
A	4.5	H1176	4	1 1/8	4 1/2	13	1	0	30/125	W
A	4.5	L20	4 7/16	2 1/8	6 1/2	(b)	4	5	50/250	B
A	6	DT1	2 7/16	2 7/16	2 7/16	17		10	5/50	B
B or A	6	DT8	2 7/16	2 1/16	7 1/16	17	2	7	20/150	W
B or A	6	L15	2 1/8	2 1/8	3 1/8	(e)	1	5	100/250	W
A	7.5	H1187	2 1/2	2 1/2	1 1/2	3		7	15/60	B
B or A	7.5	H1191	3 1/2	2 1/2	3 1/2	3		13	20/100	B
B or A	7.5	H1177	4	2 1/2	3 1/8	3	1	6	25/125	B
B or A	7.5	H1190	3 1/2	1 3/8	6 1/8	3	1	6	25/125	B
B or A	7.5	H1186	5 1/2	2 1/2	3 1/2	3	1	8	25/125	B
TR	9	DT3	1 1/16	11/16	1 13/16	18		1 1/8	0/5	W
TR	9	DT4	1	1	1 13/16	19		1 1/8	0/7.5	W
TR	9	DT6	1 7/16	1 1/8	2 1/8	18		5	2.5/15	W
TR	9	DT7	1 1/16	1 1/16	2 7/16	20		7	5/20	W
Rx	22.5	DH545	1/8	1/16	2	10		1/8	0.1/0.4	W
Rx	22.5	DH555	1/8	1/8	2	10		1/8	0.1/0.5	W
Rx	22.5	DH522	1 1/16	1/8	2	10		1 1/8	0.1/1	W
Rx	22.5	DH510	1 7/16	1	2 7/16	10		2 1/4	0.5/2	W
Rx	22.5	DH515	1 1/8	1	3 1/16	8		4	1/10	W
Rx	30	DH557	1/8	1/8	2 1/8	(f)		9/10	0.1/0.5	W
Rx	30	DH546	1 1/8	1/8	1 1/8	(g)		9/10	0.1/0.4	W
Rx	30	DH556	1 1/8	1/8	1 7/16	(g)		9/10	0.1/0.5	W
Rx	30	DH523	1 1/16	1/8	2 1/16	10		1 1/8	0.1/1	W
Rx	30	DH505	1 7/16	1	2 13/16	10		3 1/2	0.5/2	W
Rx	30	DH519	1 1/2	1 1/16	3 1/8	8		3	0.5/2	W
Rx	33	DH516	2 1/16	1	3 1/16	8		6 1/2	1/10	W
T or B	45	DM502	2 1/8	1	3 1/2	9	0	8	1/10	W
T or B	45	DM506	1 11/16	1 1/8	3 13/16	8	0	8	1/10	W
T or B	45	DM509	2 1/8	1	3 13/16	8		8 1/2	1/10	W
T or B	45	DM504	3 1/2	1 1/8	4 1/8	6	1	8	5/15	B
Rx	67.5	DM539	1 11/16	1	5 1/2	16		7 1/2	1/7.5	W
Rx	67.5	DM501	2 1/8	1 1/8	3 1/2	9		12	1/10	W
Tx	90	DM531	3 1/2	1 1/8	3 13/16	15	1	0	1/10	W
Tx	90	DM526	2 1/2	2	3 1/2	8	1	0	1/10	B
Tx	90	DM538	3 1/2	2 1/2	7 1/2	8	3	0	5/15	B
Tx	90	DM507	8 1/2	1 1/2	5 1/2	8	4	6	7/15	B
Tx	90	DM517	5 1/2	4 1/2	3 1/2	15	4	6	7/15	B
Tx	90* 1.5	H1157	11 1/2	2 1/2	5 1/2	5	8	0	HT 5/10 LT 100/250	B
Tx	90* 1.5	DM547	2 1/2	1 1/2	10	7	1	14	HT 7/15 LT 50/150	B
Tx	90* 1.5	DM541	7 1/2	1 1/2	4 1/2	7	2	14	HT 7/15 LT 75/150	B
Tx	90* 1.5	DM536	7 1/2	4	3 1/2	5	6	0	HT 7/15 LT 100/200	B
Tx	90* 1.5	DM503	8 1/2	3 1/2	5 1/2	5	7	2	HT 7/15 LT 200/350	W
Tx	90* 1.5	DM537	11 1/2	4 1/2	5 1/2	5	13	8	HT 10/25 LT 100/350	B

*Has an approximate U.S. Equivalent.

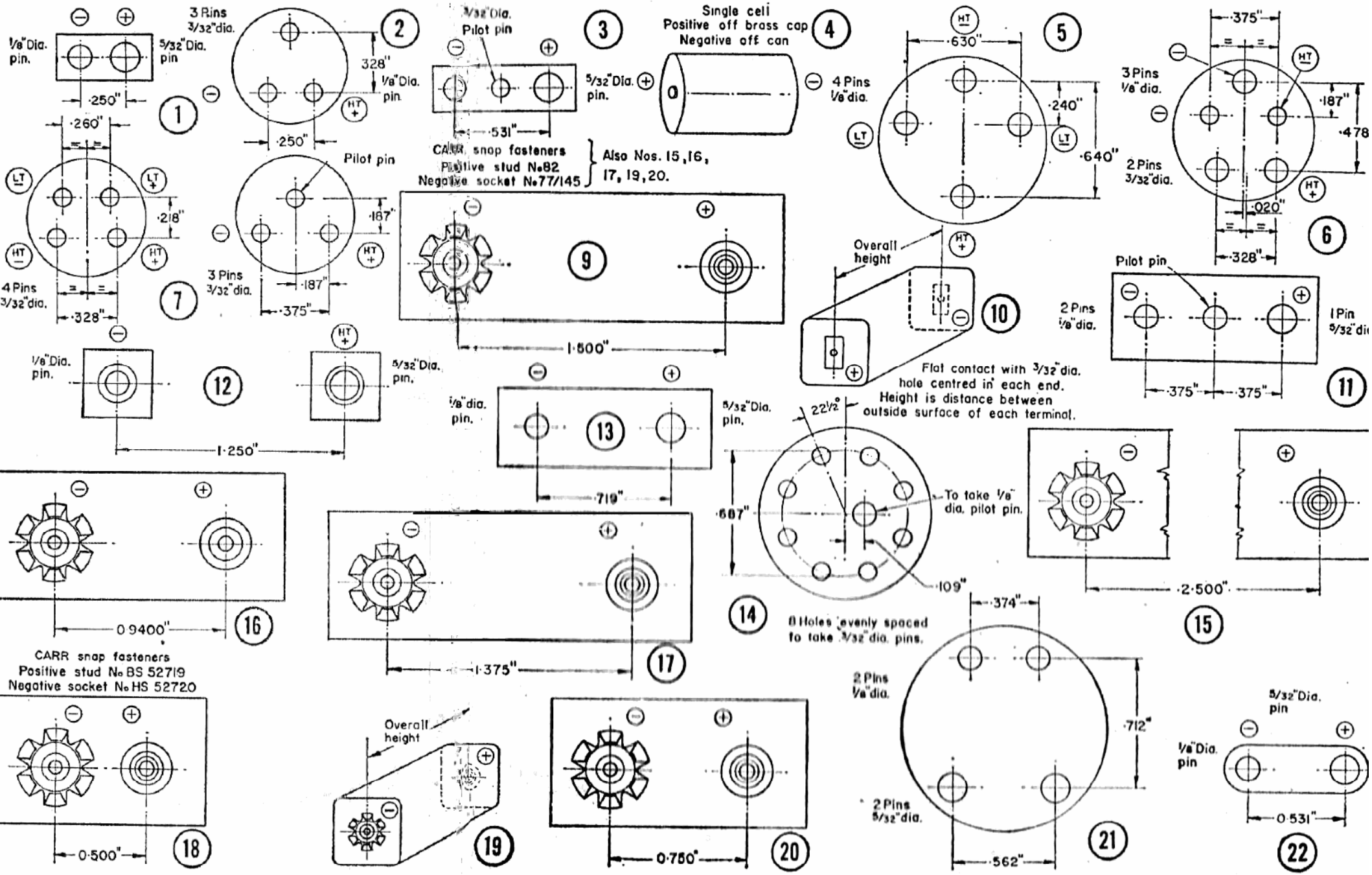
Exide	Ever Ready	G.E.C.	Oldham	Siemens	Vidor
DL25	DI4			T14	V0030
DL21	DI2			S12	
DL14	DI8			S18	V0018
T20	U2	BA6103	K832	T1	V0002
T21	LP.U2	BA6123	LP532	T1-LP	
DL29	DI9			S19	
T25	UI7		K791		V0007
G44	UI8		K764		V0015
DL16	D9			S9	
H1184	AD35	BB405	K779	1529	L5040
H1185	AD37		K701	1534	
H1158	AD4	BB391	K768	1436	L5041
H1168	ADI4	BB414	K785	1470	L5071
H1178	AD32	BB402	K771	1517	L5049
H1155	ADI	BB389	K756	1432	
BT11	Flag	BA4935	K737	BS	V0026
H1182	AD33	BB396	K777		L5046
H1183	AD34	BB404	K778	1533	L5050
2T15	1839	BA6114	K612	T10	V0012
F40	1289	BA6108	K530	P3	V0005
F50	295	BA6122	K792	P5	V0032
H10	1215		K612	B3	V0017
H30	126	BA6110	K766	B6	V0008
H1176	AD28	BB398	K786	1538	L5043
L20	481	BA6124	K793	GR3	
DT1	PP1	BB21		TR1	T6001
DT8	PP8	BB28		TR8	T6008
L15	996	BA6120	K767	1400	V0016
H1187	AD38	BB408	K782	1535	L5048
H1191	AD43	BB413	K796	1540	L5060
H1177	AD31	BB401	K769	1518	L5042
H1190	AD42		K788		L5058
H1186	AD39	BB409	K783	1536	L5055
DT3	PP3	BB23		TR3	T6003
DT4	PP4	BB24		TR4	T6004
DT6	PP6	BB26		TR6	T6006
DT7	PP7	BB27		TR7	T6007
DH545	B.145			S145	L5532
DH555	B.155			S155	
DH522	B.122			S122	L5542
DH510	B.110			S110	
DH515	B.115			S115	
DH557	B.157			S157	L5534
DH546	B.146			S146	L5533
DH556	B.156			S156	
DH523	B.123			S123	L5543
DH505	B.105			S105	L5511
DH519	B.119			S119	L5517
DH516	B.116			S116	
DM502	B.102		KL2	S102	
DH506	B.106			S106	
DH509	B.109			S109	L5501
DM504	B.104	BB500	KL4	S104	L5528
DM539	B.139	BB539			
DM501	B.101	BB501	KL1	S101	L5500
DM531	B.131	BB531	KL31		L5547
DM526	B.126	BB526	KL26	S126	L5512
DM538	B.138	BB538	KL38	S138	L5536
DM507	B.107	BB502	KL7	S107	L5508
DM517	B.117	BB517	KL17	S117	L5515
H1157	AD3	BB395	K758	1438	L5054
DM547	B.147	BB547	KL47		L5551
DM541	B.141	BB541	KL41		L5552
DM536	B.136	BB536	KL36	S136	L5537
DM503	B.103	BB503	KL3	S103	L5507
DM537	B.137		KL37		
H1006	WIN120	BB720	Gn.Bd.120	H120	L5038
H1044	WIN108		Gn.Bd.108	H108	L5044

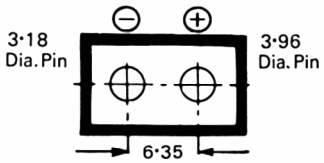
NOTES **Use:** Abbreviations are A: Actuator work; B: Boat work; Rx.: Receiver work; T: Transmitter; Tr: Transistor Receivers.

Fitting: Letters under Socket indicate:
(a) Two contacts at top and base; (b) Two screw terminals; (c) Two straight strips; (d) One L, one straight strip; (e) One spring, one strip; (f) End cap contacts; (g) Stud contacts.

Standard: B indicates British standard; W world.

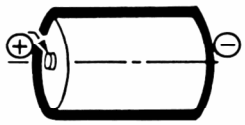
Special Note: Current range is for long life, these figures are very considerably increased by radio control users at expense of battery life.


1
1/8"Dia. pin.
5/32"Dia. pin
·250"
2
3 Pins 3/32"dia.
·328"
1/8"Dia. pin.
·250"
3
3/32"Dia. Pilot pin
5/32"Dia. pin.
·531"
CARR snap fasteners
Positive stud No.82
Negative socket No.77/145
Also Nos. 15, 16, 17, 19, 20.
4
Single cell
Positive off brass cap
Negative off can
4 Pins 1/8"dia.
5
·630"
·240"
·640"
6
·375"
3 Pins 1/8"dia.
·187"
·478
2 Pins 3/32"dia.
·020"
·328"
7
·260"
·218"
4 Pins 3/32"dia.
·328"
Pilot pin
·187"
3 Pins 3/32"dia.
·187"
·375"
9
1·500"
10
Overall height
11
Pilot pin
2 Pins 1/8"dia.
1 Pin 5/32"dia.
·375"
·375"
12
1/8"Dia. pin.
5/32"Dia. pin.
1·250"
13
1/8"dia. pin.
·719"
14
5/32"Dia. pin.
22½°
·607"
To take 1/8" dia. pilot pin.
·109"
8 Holes evenly spaced to take 3/32"dia. pins.
15
·2·500"
16
0·9400"
17
1·375"
CARR snap fasteners
Positive stud No.BS 52719
Negative socket No.HS 52720
18
0·500"
19
Overall height
20
0·750"
21
·374"
2 Pins 1/8"dia.
·712"
2 Pins 5/32"dia.
·562"
22
5/32"Dia. pin
1/8"Dia. pin
0·531"



1

Single Cell
Positive Off
Brass Cap
Negative Off Can



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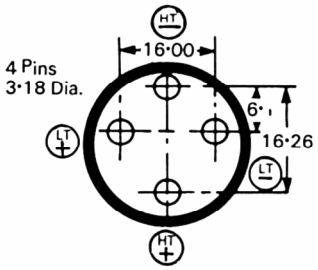

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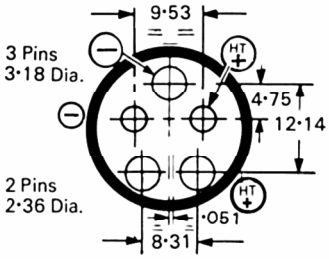

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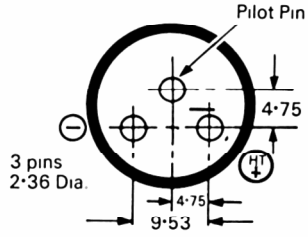
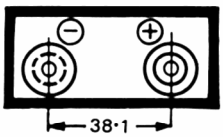
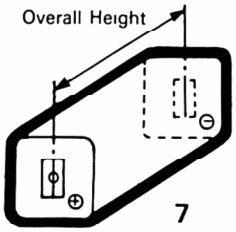


5

Miniature
Press Stud
Fasteners



6



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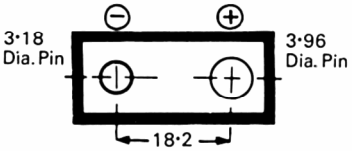
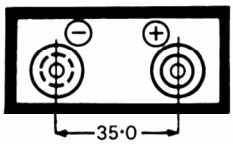


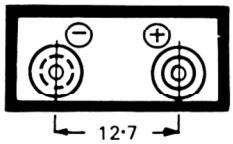
8

Miniature
Press Stud
Fasteners



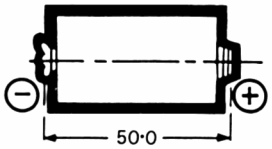
9

Miniature
Press Stud
Fasteners



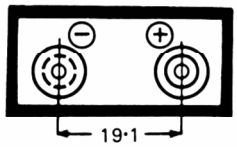
10

Standard
Press Stud
Fasteners

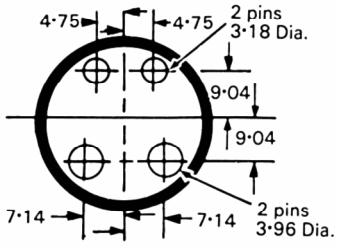


11

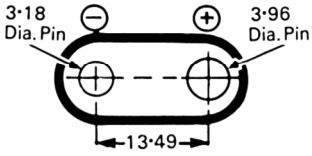
Miniature
Press Stud
Fasteners



12

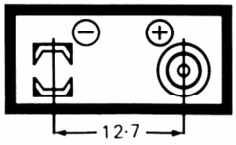


13



14

Miniature
Snap Fasteners



15

NOTE: The terminal connections are situated in the length and width dimensions, except for diagrams 3, 8 and 12 as shown.

All dimensions shown are in millimetres.