



Type SA Direct-Current Signal Mechanism
For Repair Parts Only

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Note: This plate is included for ordering repair parts only for mechanism, drawing No. 53052-4.

For latest direct-current mechanisms see Plates H2649 to H2655.

Drawing references are shown for convenience in checking shipping lists and invoices.

Fig. No.	Name	Drawing Reference
Order by plate, figure number and name		
D	Reflector Unit Complete, comprises parts Figs. 24 to 33 inclusive. Does not include lamp Fig. 34 which must be ordered separately.....	53056 Gr. 3
E	Contact Block Complete, as shown. Comprises parts Figs. 9 to 19 inclusive.....	53053 Gr. 3 12563-9
F	Terminal Block Complete, as shown. Comprises parts Figs. 56 to 63 inclusive.....	53060 Gr. 3 12563-5
G	Case Complete, includes all parts for housing mechanism. Does not include reflector unit, terminal board, glass Fig. 38 and glass case Fig. 48.....	
1	Armature Complete, with miniature roundels, for three indication unit, giving green, red and yellow indications. Includes spectacles, vane and all parts mounted on shaft.....	53055-4 Gr. 1
1a	as above, except for two indication unit, giving red and yellow indications.....	53055-4 Gr. 3
1b	same as Fig. 1, except for two indication unit, giving green and red indications.....	53055-4 Gr. 4
1c	same as Fig. 1, except for two indication unit, giving purple and yellow indications.....	53055-4 Gr. 2
2	Counterweight, for mechanism.....	53703 Gr. 1
3	Pin, $\frac{1}{8}$ " x $1\frac{1}{4}$ ", hinge for counterweight.....	504-140
4	Insulator Complete, for contact fingers. Includes stud for attaching to counterweight.....	42792
5	Nut, No. 10-32 x $\frac{3}{8}$ " hex., with lock washer, for stud on insulators, also for contacts, terminal posts and studs for supporting brackets.....	40796 22543-9

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Fig. No.	Name	Drawing Reference
Order by plate, figure number and name		
6	Contact Finger Complete, left hand, as shown, one required.....	53059 Gr. 4
7	Screw, No. 14-40 x $\frac{5}{8}$ " headless, used as stops for counterweights. Two required.....	5100-10
8	Nut, No. 14-40 hex., for screws Figs. 7 and 64.....	53084-1
9	Screw, No. 10-32 x $\frac{1}{8}$ " fl. hd., for fastening contact block to pole piece.....	12563-9
10	Contact Block only, for Fig. E.....	47508-45
11	Screw, No. 10-32 x $1\frac{1}{2}$ " rd. hd., terminal post for contact block..	2438-24
12	Washer, for terminal post, Fig. 11.....	40791
13	Insulator, for terminal post on contact block.....	53109
14	Screw, No. 8-32 x $\frac{3}{4}$ " rd. hd., used as terminal post.....	2553-19
15	Nut, No. 8-32 hex., for terminal post, Fig. 14.....	3891-1
16	Washer, for terminal post, Fig. 14.....	2534-1
17	Terminal, for front contact.....	51559-11
18	Front Contact Complete, as shown, two required.....	42799-7 Gr. 8
19	Back Contact Complete, as shown, two required.....	13061-52 Gr. 1
20	Contact Finger Complete, right hand, as shown, one required....	53059 Gr. 3
21	Pin, as shown, with cotter, for fastening links on armature to counterweight.....	730-46 51026-2
22	Pin, $\frac{1}{16}$ " x $\frac{9}{16}$ ", for fastening counterweight hinge pin in bracket Fig. 23.....	12682
23	Bearing Bracket, as shown, for supporting one end of armature shaft and counterweight.....	53063-2
24	Holder, for reflector unit Fig. D, includes studs for mounting re- ceptacle.....	53068-1 441-120
25	Washer, for use between pad and holder for reflector.....	590-25
26	Reflector, glass, as shown.....	53122

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Fig. No.	Name	Drawing Reference
Order by plate, figure number and name		
27	Lamp Receptacle Complete, for details and order references see Plate H2669.....	53058-5 Gr. 2
28	Knurled Nut, No. 10-32, for lamp receptacle.....	13076-1
29	Nut, No. 10-32 hex., cup shape for spring.....	20673-2
30	Spring, as shown, for receptacle.....	586-32
31	Pad, for use behind reflector.....	1533-32
32	Retaining Ring, for reflector.....	45647-5
33	Screw, No. 4-36 x $\frac{3}{16}$ " rd. hd., for fastening retaining ring to holder.....	35699-2
34	Incandescent Lamp, 2 pin candelabra single contact bayonet base, S-8 bulb, single filament, 1000 hour rating, 11.3 volts, 13.3 watts, recommended for operation on 10 volts.....	34866-32
34a	as above, except S-11 bulb, single filament, 1000 hour rating, 8 volts, 10 watts, recommended for operation on 7.2 volts....	34866-48
34b	same as Fig. 34, except S-11 bulb, major and minor filaments in multiple, 1000 hour rating, 8 volts, 13+3.5 watts, recommended for operation on 7.2 volts.....	34866-37
34c	same as Fig. 34, except S-11 bulb, single filament, 1000 hour rating, 9 volts, 15.3 watts, recommended for operation on 8 volts..	34866-34
34d	same as Fig. 34, except S-11 bulb, major and minor filaments in multiple, 1000 hour rating, 10 volts, 13+3.5 watts, recommended for operation on 9 volts.....	34866-60
34e	same as Fig. 34, except S-11 bulb, single filament, 1000 hour rating, 10 volts, 25 watts, recommended for operation on 9 volts..	34866-47
34f	same as Fig. 34, except S-11 bulb, single filament, 2000 hour rating, 13.5 volts, 17 watts recommended for operation on 12 volts.....	34866-25
34g	same as Fig. 34, except G-16 $\frac{1}{2}$ bulb, single filament, 1000 hour rating, 115 volts, 25 watts, recommended for operation on 110 volts.....	34866-45

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Fig. No.	Name	Drawing Reference
Order by plate, figure number and name		
35	Glass, for reflector unit compartment.....	924-11
36	Gasket, rubber, for use with lens, Fig. 38.....	52983-3
37	Spring, with sleeve, for fastening glass in case.....	51107-6 15284-17
38	Outer Cover Glass, for use in position shown.....	924-17
39	Stud, as shown, for mounting bracket, four required.....	441-117
40	Bearing, upper half, for armature shaft.....	53828
41	Ball, for use at ends of armature shaft.....	36126-4
42	Shim, .005" th. for use between upper and lower halves of armature shaft bearing.....	53879
42a	as above, except .003" th.....	53879-1
43	Bearing, lower half, with knife edge for armature shaft.....	53828-1
44	Line Coil, 250 ohms resistance, for 8 volt operation. Includes bakelite shell.....	53121 Gr. 2
44a	as above, except 380 ohms resistance for 10 volt operation.....	53121 Gr. 3
44b	same as Fig. 44, except 500 ohms resistance, for 12 volt operation. (Also replacement for 430 ohm coil).....	53121 Gr. 5
45	Pole Piece Complete. Two required.....	53101 Gr. 1
46	Local Coil, 300 ohms resistance, for 8 volt operation.....	31066-18 Gr. 2
46a	as above, except 517 ohms resistance, for 10 volts operation.....	31066-18 Gr. 4
46b	same as Fig. 46, except 650 ohms resistance, for 12 volt operation.....	31066-18 Gr. 5
47	Core, for coil.....	53075
48	Glass Cover, for housing lower half of mechanism.....	37380-8
49	Screw, 1/4"-20 x 7/8" fil. hd., for fastening bearing brackets to case.....	45572-4
50	Bearing Bracket, for supporting end of armature shaft.....	53064-1
51	Plug, 3/8"-16, for expanding core to fasten to pole piece.....	53226
52	Washer, as shown, for coil.....	36177-2
53	Washer, leather, for use between glass cover and stirrup on case Fig. G.....	4553

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Fig. No.	Name	Drawing Reference
Order by plate, figure number and name		
54	Screw, No. 8-32 x $1\frac{1}{32}$ " , collar hd., for fastening bearing to bracket	53829-2
55	Washer, fibre, for local coil.....	34017-5
56	Block only, for terminal block, Fig. F.....	47508-27
57	Screw, No. 10-32 x $\frac{3}{4}$ " , fil. hd., for mounting terminal block, Fig. F	12563-5
58	Screw, No. 14-24 x $1\frac{1}{2}$ " sq. hd., used as terminal post.....	350-3
59	Nut, No. 14-24 x $\frac{3}{16}$ " hex., for terminal post.....	42843-1
60	Nut, No. 14-24 x $\frac{3}{16}$ " hex., for terminal post.....	42839-1
61	Washer, for terminal post.....	1225-2
62	Carborundum Plate, used as lightning protection between terminals of control windings.....	41786-2
63	Connector, for carborundum plate, Fig. 62.....	4906-40
64	Screw, No. 14-40 x $\frac{1}{8}$ " headless, used as stop for vane and counterweight.....	5100-6
65	Name Plate, with escutcheon pins, for mechanism.....	{ 401-90 40797
66	Color Disc Complete, red, A. A. R. Standard, assembled in retaining cup.....	53073 Gr. 2
66a	as above, except yellow with one side depolished, A.A.R. Standard	53073 Gr. 12
66b	same as Fig. 66, except green, pre-cracked, A.A.R. Standard....	53073 Gr. 3
66c	same as Fig. 66, except purple, A.A.R. Standard.....	53073 Gr. 7
67	Spring, with sleeve, for fastening glass Fig. 35 in case.....	{ 51107-3 15284-17
68	Gasket, rubber, for use between glass and case.....	52983-1
69	Sleeve, for springs, Figs. 37 and 67.....	15284-17