



Type SA Direct-Current Signal Mechanism
With Stepped or Compound Lenses
For Repair Parts Only

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Note: This plate is included for ordering repair parts only for mechanisms, drawing Nos. 53052-8 and 53052-9.

For latest direct-current mechanism 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		
E	Reflector Unit Complete, comprises parts Figs. 24 to 33 inclusive. Does not include lamp Fig. 34 which must be ordered separately	53056 Gr. 3
F	Contact Block Complete, as shown. Comprises parts Figs. 9 to 19 inclusive.	53053 Gr. 3 12563-9
G	Terminal Block Complete, as shown. Comprises parts Figs. 56 to 63 inclusive.	53060 Gr. 4 12563-5
H	Case Complete, includes all parts for housing mechanism. Does not include reflector unit, terminal board, glass Fig. 66 or glass case Fig. 48.	53270 Gr. 1
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 red indications.	53055-4 Gr. 2
2	Counterweight, for mechanism	53703 Gr. 1
3	Pin, 1/8" x 1 1/4", hinge for counterweight.	504-140
4	Insulator Complete, for contact fingers. Includes stud for attaching to counterweights.	42792

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Fig. No.	Name	Drawing Reference
Order by plate, figure number and name		
5	Nut, No. 10-32 x $\frac{3}{8}$ " hex., for stud on insulators, also for contacts, terminal posts and studs for supporting brackets	40796
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 counterweight. Two required	5100-10
8	Nut, No. 14-40 hex., for screws, Figs. 7 and 64	53084-1
9	Screw, No. 10-32 x $\frac{7}{8}$ " fil. hd., for fastening contact block to pole piece	12563-9
10	Contact Block, only, for Fig. F	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	2553-9
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. E, includes studs for mounting receptacle	{ 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 3/16" rd. hd., for fastening retaining ring to holder	35699-1
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....	34866-43
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 rat- ing, 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, recom- mended 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 rat- ing, 13.5 volts, 17 watts recommended for operation on 12 volts	34866-25
34g	same as Fig. 34, except G-16 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		
34h	same as Fig. 34, except S-11 bulb, single filament, 1000 hour rating, 4 volts, 3 watts, recommended for compound lens signal only, for operation on 4 volts.....	34866-35
34j	same as Fig. 34, except S-11 bulb, single filament, 1000 hour rating, 8 volts, 5 watts, recommended for compound lens signals only, for operation on 8 volts.....	34866-55
34k	same as Fig. 34, except S-11 bulb, major and minor filaments in multiple, 1000 hour rating, 8 volts, 5+3.5 watts, recommended for compound lens signals only, for operation on 8 volts.....	34866-58
34m	same as Fig. 34, except S-11 bulb, single filament, 1000 hour rating, 10 volts, 5 watts, recommended for compound lens signal only, for operation on 10 volts.....	34866-38
35	Glass, for reflector unit compartment.....	924-11
36	Gasket, rubber, for use with lens, Fig. 38 and glass Fig. 66.....	52983-3
37	Spring, with sleeve, for fastening lens in case.....	51107-6 15284-17
38	Lens, 4½" dia., 6½" focus, for use with signal units employing compound lens.....	54249-3
39	Stud, as shown, for mounting bearing brackets, 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 bearings.....	53879
42a	as above, except .003" th.....	53879-1
43	Bearing, lower half, with knife-edge for armature shaft.....	53828-1
44	Line Coil, 120 ohms resistance, for 4 volt operation. Includes bakelite shell.....	53121 Gr. 6

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Fig. No.	Name	Drawing Reference
Order by plate, figure number and name		
44a	as above, except 250 ohms resistance, for 8 volt operation.....	53121 Gr. 2
44b	same as Fig. 44, except 380 ohms resistance, for 10 volt operation.....	53121 Gr. 3
44c	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	Magnet Complete. (Includes 4-46a, 2-47, 4-49).....	54419 Gr. 1
46a	Magnet only, for use with compound lens signal mechanism.....	54245
47	Support, for magnet Fig. 46.....	54420
48	Glass Cover, for housing lower half of mechanism.....	37380-8
49	Spacer, as shown, for magnet.....	54421
50	Screw, $\frac{1}{4}$ "-20 x $\frac{7}{8}$ " fil. hd., for fastening bearing brackets to case.....	45572-4
51	Bearing Bracket, for supporting end of armature shaft.....	53064-1
52	Stud, for supporting magnets.....	879-31
53	Washer, leather, for use between glass cover and stirrup on case, Fig. H.....	4553
54	Screw, No. 8-32 x $1\frac{1}{32}$ " collar hd., for fastening bearing to bracket.....	53829-2
55	Nut, $\frac{7}{16}$ "-14, for stud, Fig. 52.....	54247
56	Block only, for terminal block, Fig. G.....	47508-27
57	Screw, No. 10-32 x $\frac{3}{4}$ " fil. hd., for mounting terminal block Fig. G.....	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 $\frac{5}{16}$ " 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.....	1925-2
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 $\frac{7}{8}$ " headless, used as stop for vane and counter- weight.....	5100-6

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Fig. No.	Name	Drawing Reference
Order by plate, figure number and name		
65	Name Plate, with escutcheon pins, for mechanism.	{ 401-150 40797
66	Outer Cover Glass, for use with stepped lens signals.	924-17
67	Color Disc Complete, red, A.A.R. Standard, assembled in retaining cup.	53073 Gr. 2
67a	as above, except yellow with one side depolished, A.A.R. Standard	53073 Gr. 12
67b	same as Fig. 67, except green, pre-cracked, A.A.R. Standard. . .	53073 Gr. 3
67c	same as Fig. 67, except purple, A.A.R. Standard.	53073 Gr. 7
68	Spring, with sleeve, for fastening glass Fig. 35 in case.	{ 51107-3 15284-17
69	Gasket, rubber, for use between glass and case.	52983-1
70	Sleeve, for springs Figs. 37 and 68.	15284-17