



Type SA Direct-Current Signal Mechanism
For Repair Parts Only

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

Note: This plate is included for ordering repair parts only for mechanisms, drawing Nos. 53052-16 and 53052-17.

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		
J	Reflector Unit Complete, comprises parts Fig. 8, 17 to 23, and 30 to 33 inclusive. Does not include lamp Fig. 30, which must be ordered separately.	53056-1 Gr. 1
K	Contact Block Complete, as shown. Comprises parts Figs. 7, 8, 9, 10, 12, 14, 15, 16, 26, 27 and 28.	53053 Gr. 8
L	Terminal Block Complete, as shown. Comprises parts Figs. 6 and 60 to 66 inclusive.	53060 Gr. 4
M	Case Complete, includes all parts for housing mechanism. Does not include reflector unit, terminal block, glass Fig. 39 and glass case Fig. 48.	53270-1 Gr. 1
1	Screw, No. 14-40 x $\frac{5}{8}$ " lg., headless, used as stop for counterweight	5100-10
2	Screw, No. 14-40 x $\frac{7}{8}$ " lg., headless, used as stop for armature. . .	5100-6
3	Pin, .125" dia. x $\frac{7}{8}$ " lg., for counterweight.	2644-5
4	Counterweight Complete, for mechanism.	53703-1 Gr. 1
5	Nut, No. 14-40 x $\frac{1}{8}$ " hex. for screws Figs. 1 and 2.	53084-1
6	Screw, No. 10-32 x $\frac{3}{4}$ ", fil. hd., for fastening contact block to bracket.	12563-5
7	Screw, No. 10-32 x $1\frac{1}{2}$ " rd. hd., terminal post for contact block. .	2438-24
8	Nut, No. 10-32 x $\frac{1}{8}$ " hex., for terminal posts and contacts, also for stud Fig. 51.	40796
9	Washer, for terminal posts.	40791
10	Terminal Block, only.	47508-49
11	Armature Complete, with miniature roundels, for three indication unit, giving green, red and yellow indications. Includes spectacles, fly wheel, vane and all riveted parts mounted on shaft. .	53055-8 Gr. 1

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Fig. No.	Name	Drawing Reference
Order by plate, figure number and name		
11a	as above, except for two indication unit giving purple and yellow indications.....	53055-8 Gr. 2
11b	same as Fig. 11, except for two indication unit giving red and yellow indications.....	53055-8 Gr. 3
12	Nut, No. 8-32 x 1/8" hex., for fastening fingers to counterweight, also for terminal posts Fig. 28.....	3891-1
13	Contact Finger Complete, as shown, two required.....	53059-3 Gr. 1
14	Back Contact Complete, includes silver contact, as shown, two required.....	13061-52 Gr. 2
15	Contact Complete, as shown, two required.....	42799-7 Gr. 8
16	Terminal, for contact Fig. 15.....	51559-11
17	Holder, for reflector unit Fig. J, includes studs for mounting receptacle riveted in place.....	53068-2 441-120
18	Washer, for use between pad and holder for reflector.....	590-25
19	Spring, for receptacle.....	586-32
20	Lamp Receptacle Complete, for details and order references see Plate H2669.....	53058-5 Gr. 2
21	Nut, No. 10-32 hex., for stud on holder.....	46277-1
22	Nut, No. 10-32, cup shape, for spring.....	20673-2
23	Washer, for use behind reflector.....	1533-32
24	Bearing Bracket, as shown, for supporting one end of armature shaft.....	53063-6
25	Name Plate, with screws, for mechanism.....	401-223 54392-13
26	Insulation, for contact block.....	53109
27	Washer, for screw Fig. 28.....	2534-1
28	Screw, No. 8-32 x 3/4" rd. hd., used as terminal post on contact block.....	2553-19

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Fig. No.	Name	Drawing Reference
Order by plate, figure number and name		
29	Bracket, as shown, for supporting counterweights and contact block.....	53063-7
30	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
30a	as above, except S-11 bulb, single filament, 1000 hour rating, 8 volts, 10 watts, recommended for operation on 7.2 volts....	34866-43
30b	same as Fig. 30, 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
30c	same as Fig. 30, except S-11 bulb, single filament, 1000 hour rating, 9 volts, 15.3 watts, recommended for operation on 8 volts	34866-34
30d	same as Fig. 30, 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
30e	same as Fig. 30, except S-11 bulb, single filament, 1000 hour rating, 10 volts, 25 watts, recommended for operation on 9 volts..	34866-47
30f	same as Fig. 30, except S-11 bulb, single filament, 2000 hour rating, 13.5 volts, 17 watts, recommended for operation on 12 volts	34866-25
30g	same as Fig. 30, except G-16½ bulb, single filament, 1000 hour rating, 115 volts, 25 watts, recommended for operation on 110 volts.....	34866-45
30h	same as Fig. 30, 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
30j	same as Fig. 30, 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

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Fig. No.	Name	Drawing Reference
Order by plate, figure number and name		
30k	same as Fig. 30, 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
30m	same as Fig. 30, 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
31	Reflector, glass, as shown.	53122
32	Retaining Ring, for reflector.	45647-5
33	Screw, No. 4-36 x 1/4" fl. hd., for fastening retainer to holder.	35699-2
34	Spring, with sleeve, for fastening glass Fig. 36 in case.	{ 51107-3 15284-17
35	Gasket, rubber, for use between glass and case.	52983-1
36	Glass, for reflector unit compartment.	924-11
37	Gasket, rubber, for use with glass Fig. 39 or lens Fig. 58.	52983-2
38	Spring, with sleeve, for fastening glass in case.	{ 51107-6 15284-17
39	Outer Cover Glass, for use in position shown.	924-17
40	Line Coil, 105 ohms resistance, for 4 volt operation. Includes bakelite shell.	53121-1 Gr. 6
40a	as above, except 250 ohms resistance for 7.5-8 volt operation.	53121-1 Gr. 2
40b	same as Fig. 40 except 380 ohms resistance, for 10 volt operation	53121-1 Gr. 3
40c	same as Fig. 40 except 500 ohms resistance, for 12 volt operation	53121-1 Gr. 5
41	Bearing, upper half, for armature shaft.	53828
42	Ball, for use at ends of armature shaft.	36126-4
43	Gasket, for use between glass case and mechanism case.	13014-126
44	Shim, .005" th. for use between upper and lower halves of armature shaft bearings.	53879
44a	as above, except .003" th.	53879-1

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Fig. No.	Name	Drawing Reference
Order by plate, figure number and name		
45	Bearing, knife-edge, for armature shaft.....	53828-1
46	Bearing Bracket, for supporting one end of armature shaft.....	53064-2
47	Washer, for use between bearing bracket and poles.....	53097
48	Glass Case, for housing lower half of mechanism.....	37380-8
49	Screw, $\frac{1}{4}$ "-20 x $\frac{7}{8}$ " lg. for fastening brackets Figs. 24 and 46 to case, four required.....	45048-8
50	Screw, No. 8-32 x $1\frac{1}{32}$ " collar hd., for fastening bearing to bracket.....	53829-2
51	Stud, as shown, for fastening poles to brackets, four required....	441-117
52	Stud, $\frac{7}{16}$ " dia. x $5\frac{3}{8}$ " lg. for fastening magnet to poles.....	879-31
53	Nut, $\frac{7}{16}$ "-14 hex., for stud Fig. 52.....	54247
54	Leather Washer, for use between glass case and stirrup on mechanism case.....	4553
55	Pole, right hand, for use in position shown.....	53087-1
56	Magnets Complete, as shown, includes spacers and holders.....	54419 Gr. 1
57	Pole, left hand, as shown.....	53087-2
58	Lens, $4\frac{1}{2}$ " dia., $6\frac{1}{2}$ " focus, for use with compound lens signals...	54249-3
59	Sleeve, for springs Figs. 34 and 38.....	15284-17
60	Block, only, for terminal block.....	47508-27
61	Carborundum Plate, used as lightning protection.....	41786-2
62	Connector, for carborundum plate.....	4906-40
63	Screw, No. 14-24 x $1\frac{1}{2}$ " sq. hd., used as terminal post.....	350-3
64	Nut, No. 14-24 hex., for terminal posts.....	42843-1
65	Washer, for terminal posts.....	1225-2
66	Nut, No. 14-24 x $\frac{3}{16}$ " hex., for terminal posts.....	42839-1
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