



Indication Magnets for Electric Interlocking Machines

Model 5 Electric Interlocking Machines
Indication Magnets

Note: A few years ago certain changes were made in indication magnets Figs. A and B to increase the armature travel. These changes were as follows:

- 1—Length between shoulders of studs Fig. 16 was increased.
- 2—Length of plunger on lower magnet Fig. A was decreased.
- 3—Plungers of all armatures welded in place instead of riveted.

Consideration should be given to the above changes when replacing armatures.

See detailed information under Fig. 16.

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

Fig. No.	Name	Drawing Reference
Order by plate, figure number and name		
A	Indication Magnet Complete, as shown, for double indication, for use with 110 volt d-c., high-speed switch machine. Equipped with studs having "Y" Dim = .563".....	32210-2 Gr. 2
A1	as above, except for 110 volt d-c. medium-speed switch machine. Equipped with studs having "Y" Dim = .563".....	32210-2 Gr. 3
B	Indication Magnet Complete, as shown, for use with 110 volt d-c. high-speed switch machine. Specify resistance of coils. Equipped with studs having "Y" Dim = .563".....	32210-1
B1	as above, except for 110 volt, d-c. medium-speed switch machine. Specify resistance of coils. Equipped with studs having "Y" Dim = .563".....	32210-1
B2	same as Fig. B, except for 110 volt, d-c. low-speed switch machines. Specify resistance of coils. Equipped with studs having "Y" Dim = .375".....	32210-1
C	Indication Magnet Complete, as shown, for use with low voltage, battery-indication switch machine.....	34752-2 Gr. 2
D	Indication Magnet Complete, as shown, for use with 110 volt, battery-indication switch machine.....	34752-1 Gr. 4
D1	as above, except for use with Model 2A signal.....	34752-1 Gr. 3
E	Indication Magnet Complete, as shown, for operation on 55 volts, 25 cycles or 110 volts, 60 cycles.....	32215-1 Gr. 1
E1	as above, except for operation on 110 volts, 25 cycles or 220 volts, 60 cycles.....	32215-1 Gr. 2

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Fig. No.	Name	Drawing Reference
Order by plate, figure number and name		
1	Coil, for use in position shown, .606 ohm resistance, for use with high-speed switch machine.....	2755 Gr. 3
1a	as above, except 1.6 ohm resistance, for use with medium speed switch machines.....	2755 Gr. 19
2	Coil, for use in position shown, .606 ohm resistance, for use with high-speed switch machines.....	2755 Gr. 5
2a	as above, except 1.6 ohm resistance, for use with medium-speed switch machines.....	2755 Gr. 18
3	Coil, for use in position shown, .196 ohm resistance, for use with high- and medium-speed switch machines.....	2756-1 Gr. 1
4	Coil, for use in position shown, .196 ohm resistance, for use with high- and medium-speed switch machines.....	2756-1 Gr. 2
5	Core Complete, for coils Figs. 1 and 2, includes mounting plate welded in place.....	55313-2 Gr. 1
6	Core, for coils Figs. 3, 4, 30 and 31.....	2723-1
7	Insulation, for use between coils Figs. 3 and 4 and plate Fig. 20	37412-6
8	Washer, for use between core extension and coils, for Figs. A, B, C, D and E.....	17546
9	Core, extension, for magnets Figs. A, B and D.....	9064
10	Armature Complete, long, for indication magnet, includes plunger welded in place. Required stud Fig. 16.....	55673 Gr. 3
12	Insulation, for coils Figs. 1 and 2, also for use between coils Figs. 28 and 29 and plate Fig. 32.....	37412-5
13	Guide, for use between insulation Fig. 12 and felt washers Fig. 14	53354-1

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Fig. No.	Name	Drawing Reference
Order by plate, figure number and name		
14	Washer, felt, for use on top of coils Figs. 1, 2, 28, 29, 41, 42, 50 and 53 and bottom of coil Fig. 57.....	1533-14
15	Armature Complete, short, operates indication latch, includes plunger welded in place. Required stud Fig. 16.....	55673 Gr. 2
16	Stud, Dim "Y" = .563", for fastening top coils to bottom coils. Used on revised magnets Figs. A, A1, B and B1.....	9065-2
16a	as above, except Dim "Y" = .523", used on original magnets Figs. A, A1, B and B1.....	9065
16b	same as Fig. 16, except Dim "Y" = .375". Used on revised magnets Fig. B2.....	9065-3
16c	same as Fig. 16b, except Dim "Y" = .335". Used on original magnets Fig. B2.....	9065-1
17	Washer, for use on top of core extension Fig. 9, for Figs. A and B	1225-79
18	Washer, for use between core extension and coils Figs. 3, 4, 30 and 31.....	17546-1
19	Washer, felt, for use on bottom of coils Figs. 3, 4, 30 and 31.	1533-15
20	Plate, for supporting top set of coils.....	53353-7
21	Core Complete, for supporting bottom set of coils, includes plate welded in place.....	55313-3 Gr. 1
23	Washer, for studs Figs. 16 and 47.....	31036-2
24	Rod, for plates Figs. 20, 21 and 25.....	53337
25	Plate, for supporting coils, for use on bottom.....	53353-9
26	Nut, 3/8"-24, hex., with lock washer, for rod Fig. 24.....	{ 52822-2 0569-2
27	Screw, No. 14-24 x 3/4" sq. hd., with washer, for fastening bottom coils to plate, for Figs. A and B.....	{ 2762 0510-1

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Fig. No.	Name	Drawing Reference
Order by plate, figure number and name		
28	Coil, for use in position shown, specify resistance.	2755
29	Coil, for use in position shown, specify resistance.	2755
30	Coil, for use in position shown, specify resistance.	2756-1
31	Coil, for use in position shown, specify resistance.	2756-1
32	Core Complete, for indication magnets Figs. B and D includes mounting plate welded in place.	55313-1 Gr. 1
34	Guide, for use between plate and coils, for indication magnets Figs. B and D.	53354
36	Armature Complete, for indication magnet Fig. B, for use with high- and medium-speed switch machines, includes plunger welded in place. Required stud Fig. 16.	55673 Gr. 1
36a	as above, except for use with low-speed switch machines.	55673 Gr. 4
37	Insulation, for use on lower end of coils Figs. 30 and 31.	37412-4
38	Plate, for use on lower end of indication magnet Fig. B.	53353-1
39	Insulation, for use between plate and guide Fig. 40.	37412-12
40	Guide, for use between coils and plate, for Fig. C.	53354-2
41	Coil, 9.9 ohms resistance, for use in position shown.	23300 Gr. 3
42	Coil, 9.9 ohms resistance, for use in position shown.	23300 Gr. 4
43	Core Complete, for coils Figs. 41 and 42, includes mounting plate welded in place.	55313-1 Gr. 2
45	Core, extension, for coils Figs. 41 and 42.	17873
46	Washer, for stud Fig. 47.	31036-1
47	Screw, 1/4"-24, fil. hd., for fastening armature to coils, for Fig. D	9068-4
48	Armature Complete, for indication magnet Fig. C, includes plunger welded in place.	55673 Gr. 6
49	Spacer, for armature, for Fig. C.	32368-3
50	Coil, for use in position shown, specify resistance.	2755

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Fig. No.	Name	Drawing Reference
Order by plate, figure number and name		
51	Armature Complete, operates indication latch, for Fig. D, includes plunger welded in place.....	55678 Gr. 4
52	Insulation, for use between plate and guide Fig. 34.....	37412-3
53	Coil, for use in position shown, specify resistance.....	2755
54	Pin, for securing stud Fig. 47 in position.....	2944
55	Plate, as shown, for indication magnet Fig. E.....	54476
56	Screw, No. 10-32 x 5/8", fil. hd., with washer, for fastening frame Fig. 58 to plate Fig. 55.....	{ 12280-11 0622-1
57	Coil, as shown, for operation on 55 volts, 25 cycles or 110 volts, 60 cycles.....	31118 Gr. 3
57a	as above, except for operation on 110 volts, 25 cycles, or 220 volts, 60 cycles.....	31118 Gr. 2
58	Frame, as shown, for indication magnet Fig. E.....	31111
59	Plunger Complete, for indication magnet Fig. E.....	41806-1 Gr. 1
60	Tube, for plunger Fig. 59.....	31114-1
61	Bushing, for use on top of plunger.....	31119
62	Core, as shown, for indication magnet Fig. E.....	31113-1
63	Residual Washer, for plunger Fig. 59.....	3890
64	Pin, used as stop for plunger.....	1118-16
65	Screw, No. 14-24 x 7/8", fil. hd., with washer, for mounting indication magnets Figs. A, B, C and D to interlocker.....	{ 0504-2 0510-1
66	Screw, No. 14-24 x 1 1/4" fil. hd., with washer, for mounting indication magnet Fig. E to interlocker.....	{ 0651-1 0510-1
67	Screw, No. 14-24 x 2 1/4" sq. hd., with hex. nuts and washer, used as terminal posts for indication magnets.....	{ 350-11 42843-1 42839-1 1225-2
68	Screw, 1/4"-24, fil. hd., for fastening armature to coils, for Fig. C	9068-5