



Model 5 Form E Interlocking Machine

Model 5 Form E Electric Interlocking Machine

NOTE: When ordering interlocking machines a signaled and numbered track plan should be furnished, drawn to a scale of not more than one hundred feet to the inch. This plan must show the location of the tower and the relation of the front of the machine to the track (the front is that part of the machine occupied by a man when operating the levers). It should also indicate clearly the functions of each lever and route or routes to be governed by each signal. The order should also state the number of levers and spare spaces.

Electric locks, time locks, time contactors, push buttons and similar equipment are classed as auxiliary appliances and should be specified when required.

For sizes and dimensions of machine see Page 7.

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	<p>Lever Complete, for single switch or derail. Includes all apparatus necessary for adding lever in machine. See Plate G0315 for lever and details.</p> <p>Order must specify the following:</p> <ul style="list-style-type: none"> (1) Name and location of interlocking plant. (2) Upturned or downturned lever. (3) Lever number. (4) Model and operating voltage of switch machine. (5) If lever is to be notched for electric lock, specify position it is desired to lock lever, i.e., normal, reverse, etc. See Plate G1115 for lever notching. (6) Number of tiers of locking. (7) Number of contacts on rotary circuit controller. 	
AI	<p>as above, except with stub lever shown on Plate G0315, for double lever space.</p>	
Order must specify information required in Fig. A.		
B	<p>Lever Complete, for signal. Includes all apparatus necessary for adding lever in machine. See Plate G0315 for lever and details.</p>	

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Fig. No.	Name	Drawing Reference
	Order by plate, figure number and name	
B	Order must specify the following:	
<i>Cont.</i>	(1) Name and location of interlocking plant.	
	(2) Upturned or downturned lever.	
	(3) Lever number.	
	(4) Type of signal which lever will control.	
	(5) Dynamic or battery indication. If battery indication give voltage, if A.C. give voltage and frequency.	
	(6) If lever to be notched for time lock or time contactor.	
	(7) Number of tiers of locking.	
	(8) Number of contacts on rotary circuit controller.	
C	Cabinet Complete, includes screws for fastening to frame. See Plate G0217 for details and order references.	
D	Frame Complete. See Plate G0217 for details and order references.	
E	Locking Bed. See Plate G0809 for details and order references.	
F	Lamp Case Complete, includes screws for mounting. See Plate G0704 for details and order references.	
G	Emergency Screw Release Complete, includes screws for mounting. See Plate G1105 for details and order references.	
H	Time Contactor Complete, includes screws for mounting. See Plate G1119 for details and order references.	
J	Electric Lock Complete, includes screws for mounting. See Plate G1112 Fig. B for details and order references.	
K	Indication Latch Complete. See Plate G0511, for details and order references.	
L	Indication Magnet Complete. See Plate G0502 for details and order references.	
M	Controller Complete, includes screws for mounting. See Plate G0409 for details and order references.	

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Fig. No.	Name	Drawing Reference
Order by plate, figure number and name		
N	Transformer Complete, as shown, for interlocker lever lights and illuminated track diagrams. When ordering transformer for replacement see name plate and give data; otherwise specify rating of transformer. Includes screws for mounting.	{ 53715-2 Gr. 1 42068-1
P	Indication Selector Complete. See Plate G0509 for details and order references.	
R	Rotary Circuit Controller Complete, includes screws for mounting. See Plate G0412 for details and order references.	
S	Terminal Board Complete. See Plate G0610 for details and order references.	
T	Terminal Board Complete. See Plate G0610 for details and order references.	
U	Polarized Relay Complete, includes screws for mounting. See Plate G0505 for details and order references and Plate G0606 for mounting board.	
1	Cap, intermediate, guide for use between levers.	54471
1a	as above, except for use at right hand end of machine.	54471-1
1b	same as Fig. 1, except for use at left hand end of machine.	54471-2
2	Screw, $\frac{3}{8}$ "-24 x $2\frac{1}{16}$ " hex. hd., with washer, for fastening cap Fig. 1 to frame.	{ 53349-1 42175
3	Rail, for top of cabinet, for use with 16 lever section.	54645-21
3a	as above, except for use with 12 lever section.	54645-22
4	Wedge Complete, for fastening indication latch to frame, includes spring and plate.	53416-1 Gr. 1
5	Nut, $\frac{1}{2}$ "-20 x $\frac{3}{4}$ " hex., for screw on wedge.	51019-2
6	Wire Guide, for use with 16 lever section.	53403
6a	as above, except for use with 12 lever section.	53403-1
7	Screw, No. 14-24 x $2\frac{1}{8}$ " hex. hd., with washer, for mounting wire guide.	{ 12527-7 1225-2

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Fig. No.	Name	Drawing Reference
Order by plate, figure number and name		
8	Nut, $\frac{1}{4}$ "-20 x $\frac{1}{2}$ " hex., with washer, for rod Fig. 12.	{ 774-1 53029-2
9	Board, for mounting indication selectors and transformer, for use with 16 lever section.	53364-10
9a	as above, except for use with 12 lever section.	53364-11
10	Plate, for use under board Fig. 9.	53353-12
11	Screw, No. 14-24 x $1\frac{3}{4}$ " fil. hd., with nut and washer, for fastening board Fig. 9 to bracket on frame.	{ 0504-10 0510-1 50637-1
12	Rod Complete, for operating rotary circuit controller when high-voltage controllers are used.	32627-5 Gr. 6
12a	as above, except for operating rotary circuit controller when high-voltage controllers are not used.	54734-1 Gr. 1
13	Screw Jaw, for connecting rod Fig. 12 to rotary circuit controller	32231-2
14	Block, right hand, for use with bracket Fig. 15 on right hand end of machine.	53336-3
14a	as above, except for use on left hand end of machine.	53336-4
15	Bracket, one required for each lever space when lamp cases are not used, includes screw, nut and washer for fastening to cabinet.	{ 16349 38239 34494
16	Screw, No. 10-32 x $\frac{3}{16}$ " fil. hd., with washer, for mounting bracket Fig. 15.	{ 53379 34494-1
17	Screw, No. 14-24 x $1\frac{1}{2}$ " fil. hd., with washer, for fastening block Fig. 14 to bracket Fig. 21.	{ 0504-9 0510-1
18	Plate, right hand, for use on right hand end of machine.	53353-3
18a	as above, except for use on left hand end of machine.	53353-4
19	Screw, No. 10-32 x $\frac{3}{4}$ " rd. hd., for fastening moulding on cabinet to bracket Fig. 21.	12280-13
20	Washer, for screw Fig. 19.	0622-1

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Fig. No.	Name	Drawing Reference
Order by plate, figure number and name		
21	Bracket, for supporting rail for cabinet.	53383-1
22	Rail, for front of cabinet, for use with 16 lever section.	54645- 15 15
22a	as above, except for use with 12 lever section.	54645- 15 16
23	Screw, No. 14-24 x 1 $\frac{5}{8}$ " hex. hd., with washer, for fastening plate Fig. 18 to frame.	{ 12527-6 0510-1
24	Screw, No. 14-24 x 1 $\frac{1}{4}$ " fil. hd., with washers, for mounting terminal boards Figs. S and T to frame.	
25	Nut, No. 14-24 x $\frac{1}{16}$ " hex., for screw Fig. 24.	50637-1
26	Insulation, for use between front leg and floor.	2539-35
27	Board Complete, for mounting relays and fuses. Includes screws, nuts and washers for mounting. See Plate G0606 for details and order references.	
27a	as above, except for mounting fuses only. See Plate G0612 for details and order references.	
28	Board Complete, for mounting relays only. Includes screws, nuts and washers for mounting. See Plate G0606 for details and order references.	
29	Light Unit Complete, as shown, bayonet base receptacle for interlocking machine.	47500-8 Gr. 1
29a	as above, except with miniature screw base receptacle.	47500-6
30	Washer, for front and rear legs when mounting to floor.	17492-1
31	Washer, fibre insulation for mounting bolts.	493-6
32	Bushing, fibre, insulation for mounting bolts.	7350-38
33	Insulation, for use between rear leg and floor.	2539-33