

General Electric Company

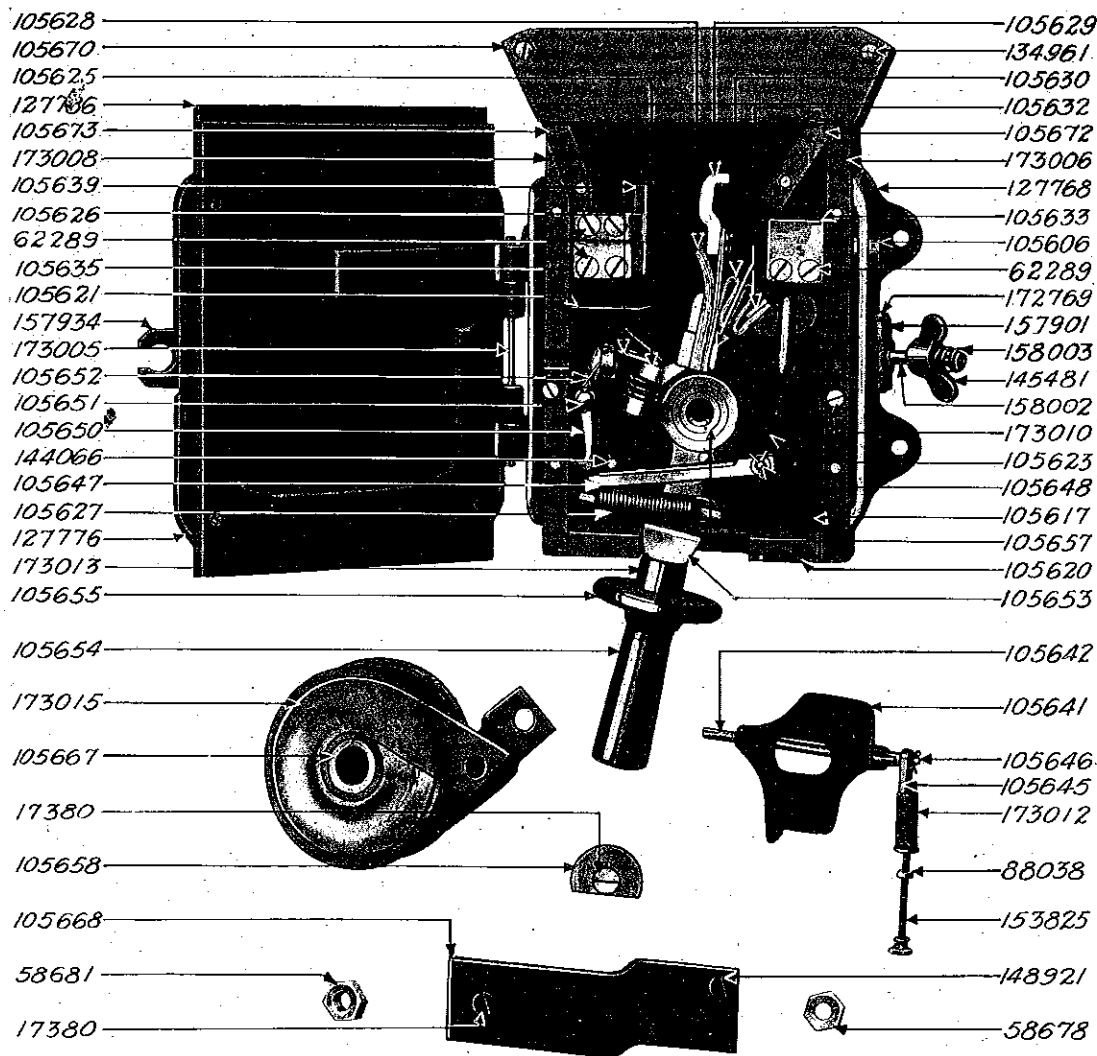
Schenectady, N.Y.

SUPPLY DEPARTMENT

September, 1915

*Bulletin No. 54745

PARTS OF TYPES MR-9, MR-10, MR-11, MR-12, MR-13 AND MR-14 DIRECT CURRENT AUTOMATIC CIRCUIT BREAKERS



NOTE.—The accompanying illustration of the Type MR-12, Form D circuit breaker Cat. No. 104789 is representative of the Types MR-9, MR-10, MR-11, MR-13 and MR-14 circuit breakers.

NOTE.—The data in this publication are for the convenience of customers, and every effort is made to avoid error, but this Company does not guarantee their correctness, nor does it hold itself responsible for any errors or omissions in this publication. Subject to change without notice.

*Supersedes Bulletin No. 4710

GENERAL ELECTRIC COMPANY

54745-2 MR-9, MR-10, MR-11, MR-12, MR-13, MR-14 D-C. Automatic Circuit Breakers

Cat. No.	DESCRIPTION		Amp. Cap.	CALIBRATION	
	Type	Form		Min.	Max.
173002	MR-9	D	25	25	75
104787	MR-10	D	50	50	150
104788	MR-11	D	100	100	300
104789	MR-12	D	200	200	600
104790	MR-13	D	300	300	900
104791	MR-14	D	400	600	1200

The Types MR-10, MR-11, MR-12, MR-13, Form B and MR-14, Form A circuit breakers have been superseded respectively by the Form D breakers, but for the convenience of customers having these breakers the parts are also listed.

Cat. No. Description

Following are the parts :

105604	BOX CASTING with insulation, bushings and spring catch for cover, for MR-10-B, MR-11-B, MR-12-B and MR-13-B circuit breakers.
105605	Box casting with insulation, bushings and spring catch for cover, for MR-14-A circuit breaker.
49370	Spring catch with tip and rivets.
105606	Bushing for cable, for No. 105604.
105607	Bushing for cable, for No. 105605.
127768	BOX CASTING with insulation, bushings, hinge plate, eyebolt and wingnut, for MR-9-D, MR-10-D, MR-11-D, MR-12-D and MR-13-D circuit breakers.
127770	Box casting with insulation, bushings, hinge plate, eyebolt and wingnut, for MR-14-D circuit breaker.
157901	Hinge plate for eyebolt.
173003	Rivet for No. 157901 ($\frac{3}{8}$ in. by $\frac{3}{8}$ in. r. h.).
158002	Eyebolt, sherardized.
145481	Wingnut, sherardized.
158003	Compression spring for wingnut, zinc plated.
143974	Retaining washer for compression spring ($\frac{11}{16}$ in. by $\frac{1}{2}$ in. by 0.0625 in. sherardized).
172769	Hinge pin for eyebolt ($\frac{1}{4}$ in. by $1\frac{3}{4}$ in. r. h. rivet).
105606	Bushing for cable, for No. 127768.
105607	Bushing for cable, for No. 127770.
105608	COVER for box casting, with releasing button for spring catch, for MR-10-B, MR-11-B, MR-12-B, MR-13-B and MR-14-A circuit breakers.
49373	Releasing button with pin.
127776	Cover for box casting, with catch and front plate for insulation box, for MR-9-D, MR-10-D, MR-11-D, MR-12-D, MR-13-D and MR-14-D circuit breakers.
157934	Catch plate for cover.
173004	Rivet for No. 157934 ($\frac{3}{8}$ in. by $\frac{5}{8}$ in. r. h.).
127786	Front plate with rivets and washers, for No. 127776.
105609	Hinge pin for cover, for MR-10-B, MR-11-B, MR-12-B, MR-13-B and MR-14-A circuit breakers ($\frac{3}{8}$ in. by $5\frac{1}{2}$ in. split ends, brass).
173005	Hinge pin for cover, for MR-9-D, MR-10-D, MR-11-D, MR-12-D, MR-13-D and MR-14-D circuit breakers ($\frac{1}{4}$ in. by 5 in. split ends, sherardized).
105610	INSULATION BOX, consists of side, front, back, bottom and division plates, for MR-10-B, MR-11-B, MR-12-B and MR-13-B circuit breakers.
105611	Insulation box, consists of side, front, back, bottom and division plates, for MR-14-A circuit breaker.
127780	Insulation box, consists of side, back, bottom and division plates, for MR-9-D, MR-10-D, MR-11-D, MR-12-D and MR-13-D circuit breakers.
127782	Insulation box, consists of side, back, bottom and division plates, for MR-14-D circuit breaker.
105612	Side plate with pins, right-hand, for No. 105610.

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MR-9, MR-10, MR-11, MR-12, MR-13, MR-14 D-C. Automatic Circuit Breakers 54745-3

Cat. No.	Description
105613	Side plate with pins, right-hand, for No. 105611.
173006	Side plate with pins, right-hand, for No. 127780.
173007	Side plate with pins, right-hand, for No. 127782.
105614	Side plate with pins, left-hand, for No. 105610.
105615	Side plate with pins, left-hand, for No. 105611.
173008	Side plate with pins, left-hand, for No. 127780.
173009	Side plate with pins, left-hand, for No. 127782.
105616	Mica insulation for Nos. 105614, 105615, 173008, 173009.
105617	Back plate for Nos. 105610, 127780.
105618	Back plate for Nos. 105611, 127782.
105619	Front plate for Nos. 105610, 105611.
105620	Bottom plate with pins.
105621	Division plate.
153621	Screw fastening No. 105621 to side plate (8-32, $\frac{5}{8}$ in. f. h. brass).
134961	Screw fastening side plates to bottom plate (10-32, 1 in. f. h. sherardized).
173010	Screw fastening insulation box to box casting (14-24, $2\frac{1}{2}$ in. fill. h. sherardized).
105622	Insulation pan for back of insulation box.
105623	Mechanism base plate with stud and pins, for MR-9-D, MR-10-B, MR-10-D, MR-11-B, MR-11-D, MR-12-B, MR-12-D, MR-13-B and MR-13-D circuit breakers.
105624	Mechanism base plate with stud and pins, for MR-14-A and MR-14-D circuit breakers.
144066	Screw fastening base plate in position (14-24, $\frac{5}{8}$ in. f. h. sherardized).
105625	Contact lever with catch plate.
105626	Catch plate with rivets.
105627	Tension spring for contact lever.
105628	LAMINATED CONTACT BRUSH.
105629	CONTACT FINGERS with springs and rivets (includes two fingers).
105630	Laminated connections, set of ten, for MR-9-D, MR-10-B, MR-10-D, MR-11-B, MR-11-D, MR-12-B, MR-12-D, MR-13-B and MR-13-D circuit breakers.
105631	Laminated connections, set of ten, for MR-14-A and MR-14-D circuit breakers.
148921	Screw fastening laminated connections to mechanism base plate (14-24, $\frac{1}{2}$ in. f. h. sherardized).
151719	Screw fastening laminated connections, contact brush and contact finger springs to contact lever (14-24, $\frac{7}{8}$ in. f. h. sherardized).
105632	Double washer plate for Nos. 148921, 151719.
105633	TERMINAL BLOCK, right-hand, with stud and bushing, for MR-9-D, MR-10-B, MR-10-D, MR-11-B, MR-11-D, MR-12-B, MR-12-D, MR-13-B and MR-13-D circuit breakers.
105634	Terminal block, right-hand, with stud and bushing, for MR-14-A and MR-14-D circuit breakers.
105635	Terminal block, left-hand, with copper contact and bushing, for MR-9-D, MR-10-B, MR-10-D, MR-11-B, MR-11-D, MR-12-B, MR-12-D, MR-13-B and MR-13-D circuit breakers.
105636	Terminal block, left-hand, with copper contact and bushing, for MR-14-A and MR-14-D circuit breakers.
173011	Terminal bushing for Nos. 105633, 105635 ($\frac{9}{16}$ in. cable hole).
105638	Terminal bushing for Nos. 105634, 105636 ($\frac{11}{16}$ in. cable hole).
105639	COPPER CONTACT for Nos. 105635, 105636.
62289	Clamping screw for terminal block and screw fastening copper contact to terminal block (14-24, 1 in. f. h. brass).
58678	Nut for mechanism base plate stud and small nut for terminal block stud ($\frac{1}{2}$ in.-13, $\frac{1}{8}$ in. thick, $\frac{7}{8}$ in. across flats, hex. cham. both sides, brass).
58681	Large nut for terminal block stud ($\frac{1}{2}$ in.-13, $\frac{1}{2}$ in. thick, $\frac{7}{8}$ in. across flats, hex. cham. one side, brass).
154198	Spring lock washer for Nos. 58678, 58681 ($\frac{17}{32}$ in. by $1\frac{1}{32}$ in. by $\frac{1}{8}$ in. thick).
129900	Screw fastening Nos. 105633, 105634 in position (14-24, $\frac{3}{4}$ in. f. h. sherardized).
152491	Screw fastening Nos. 105635, 105636 in position (14-24, 1 in. f. h. sherardized).
105641	Tripping armature with pin for calibrating spring link.
105642	Hinge pin for armature ($\frac{1}{4}$ in. by $4\frac{3}{4}$ in. split ends, brass).
173012	Calibrating spring with holder.
153825	Calibrating screw with thumbnut.

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Cat. No.	Description
88038	Check nut for calibrating screw (10-24, $\frac{5}{32}$ in. thick, $\frac{3}{8}$ in. across flats, hex. cham. both sides, brass).....
105645	Link for calibrating spring and armature.....
105646	Pin for link and armature.....
33795	Washer for No. 105646 ($\frac{3}{16}$ in. by $\frac{1}{8}$ in. by 0.040 in. brass).....
143497	Spring cotter for No. 105646 ($\frac{1}{16}$ in. by $\frac{1}{2}$ in. sherardized).....
105647	Tripping lever with wearing plate, zinc plated.....
105648	Hinge pin for No. 105647.....
105649	Spring for No. 105647.....
33795	Washer for No. 105648 ($\frac{3}{16}$ in. by $\frac{1}{8}$ in. by 0.040 in. brass).....
143497	Spring cotter for No. 105648 ($\frac{1}{16}$ in. by $\frac{1}{2}$ in. sherardized).....
105650	Catch lever, zinc plated.....
105651	Hinge pin for No. 105650.....
105652	Spring for No. 105650.....
17361	Washer for No. 105651 ($\frac{5}{16}$ in. by $\frac{1}{8}$ in. by 0.030 in. brass).....
150606	Spring cotter for No. 105651 ($\frac{5}{16}$ in. by $\frac{1}{2}$ in. sherardized).....
105653	Handle lever with stop pin.....
173013	Fiber sleeve for handle lever ($\frac{1}{8}$ in. by 1 in. by $\frac{11}{16}$ in. long).....
105654	Handle with stud and guard.....
105655	Handle guard.....
154198	Spring lock washer for No. 105654 ($\frac{3}{32}$ in. by $1\frac{1}{32}$ in. by $\frac{1}{8}$ in. thick).....
105656	Compression spring for handle and contact levers.....
105657	Blowout coil core and fulcrum for contact and handle levers, sherardized.....
105658	Retaining washer, sherardized.....
17380	Screw fastening No. 105658 to blowout coil core ($\frac{5}{16}$ in.-18, $\frac{5}{8}$ in. f. h. sherardized).....
105659	Bushing for blowout coil core ($\frac{5}{8}$ in. by $\frac{5}{16}$ in. by $1\frac{1}{2}$ in. long, sherardized).....
173014	OVERLOAD AND BLOWOUT COIL, wound complete, with terminals, for MR-9-D circuit breaker.....
105660	Overload and blowout coil, wound complete, with terminals, for MR-10-B and MR-10 D circuit breakers.....
105661	Overload and blowout coil, wound complete, with terminals, for MR-11-B and MR-11-D circuit breakers.....
173015	Overload and blowout coil, complete, for MR-12-B and MR-12-D circuit breakers.....
105663	Overload and blowout coil, complete, for MR-13-B and MR-13-D circuit breakers.....
105664	Overload and blowout coil, complete, for MR-14-A and MR-14-D circuit breakers.....
173016	Copper terminal for Nos. 173014, 105660 ($\frac{3}{16}$ in. stud hole).....
173017	Punched copper tube terminal for No. 105661 ($\frac{3}{16}$ in. stud hole).....
105667	Bushing for Nos. 173015, 105663, 105664 ($\frac{1}{8}$ in. by $1\frac{1}{32}$ in. by $1\frac{1}{2}$ in. long, shcrardized).....
105668	Pole piece.....
17380	Screw fastening pole piece to blowout coil core ($\frac{5}{16}$ in.-18, $\frac{5}{8}$ in. f. h. sherardized).....
148921	Screw fastening pole piece to insulation box (14-24, $\frac{1}{2}$ in. f. h. sherardized).....
105669	ARC CHUTE, consists of front, back and side plates.....
105670	Front plate.....
105671	Back plate.....
105672	Side plate with pin, right-hand.....
105673	Side plate with pin, left-hand.....
134961	Screw fastening parts of arc chute together (10-32, 1 in. f. h. sherardized).....

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Schenectady, N. Y., U. S. A.

Sales Offices in all Principal Cities