

General Electric Co.
73095
General Electric Company
Schenectady, N.Y.

June, 1920

*Bulletin No. 58355

PARTS OF CR 9145 TYPE RG RESISTORS
FORMS A, A1/3, A1/2, A2/3, A3/4, A5/6, A1, A2, A3 AND A4

SELECTION OF GRIDS

Pattern numbers and size numbers cast on each of the grids permit easy identification in the store room, and selection from the following table may be made accordingly. Also the name plate on each complete resistor gives a rating which signifies the size or sizes of grids and likewise the quantity of each contained in the resistor. Example: "CR 9145 Type RG-7A18-T-7A18" contains 36 number 7 grids, all connected in series. The full significance of the rating is explained under the subject of "Nomenclature," page 4.

The following table indicates the catalog numbers corresponding to the various pattern numbers and size numbers. Always order by catalog numbers.

GRIDS

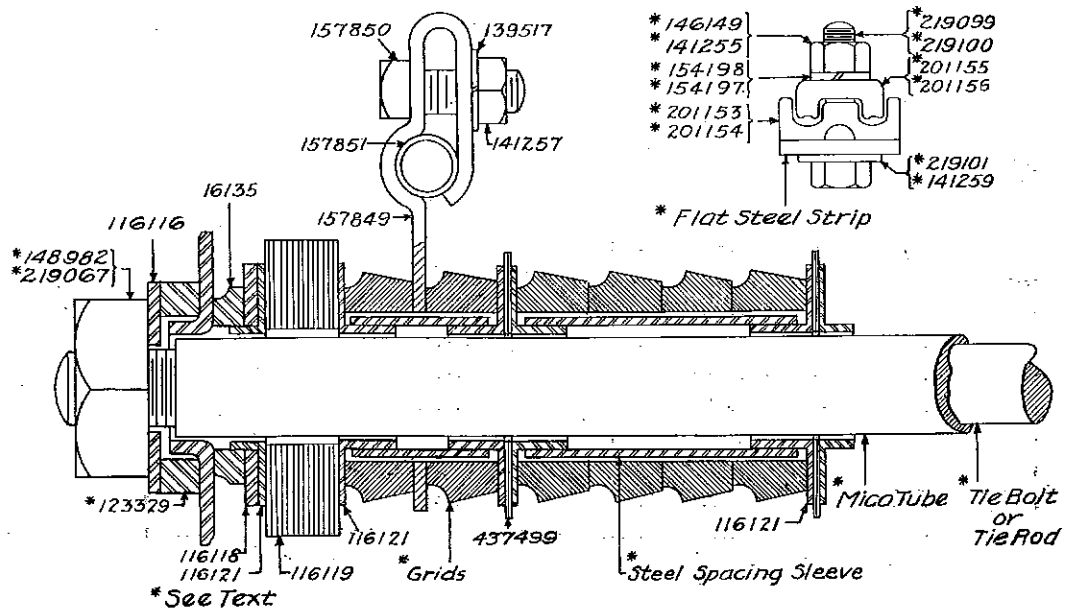
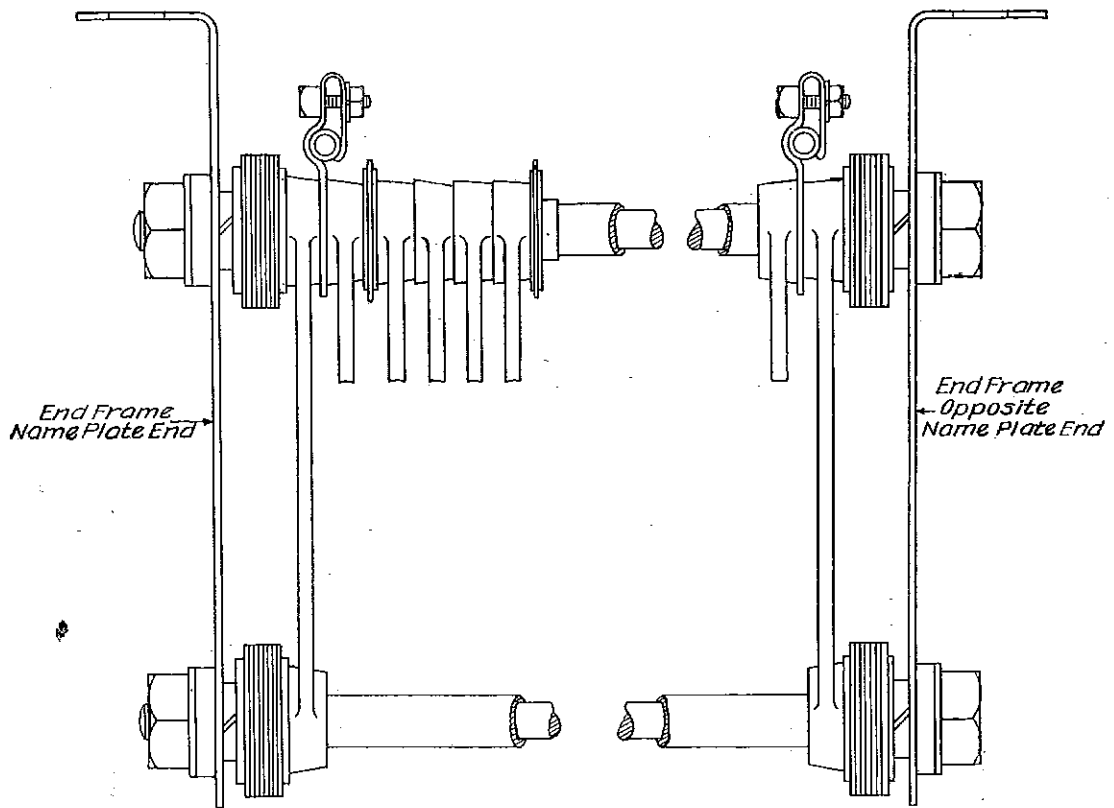
Cat. No.	Size No.	Pattern No.	Resistance per Grid at 25 Deg. C.	Approx. Wt. in Lb. per 100
60530	1	803574-XE	0.0095	224
60532	3	803574-R	0.0145	190
60534	5	803574-T	0.0215	171
60536	7	803574-V	0.032	126
60538	9	803574-XA	0.049	112
60539	10	803574-XB	0.049	104
60541	12	803574-XH	0.074	92
177154	14	1652431-A	0.105	112
179296	15	1652431-B	0.062	126

FRAME PARTS

Resistor Form Stamped on Name Plate	Max. No. of Grids Lugs $\frac{3}{8}$ In. Thick	Max. No. of Grids Lugs $\frac{1}{32}$ In. Thick	End Frame Name Plate End	End Frame End Opposite Name Plate	Tie Rod for Grids	Tie Bolt for Grids	Mica Tube	Tie Rod for Frames	Spacing Collar Between Nut and Frame	Square Nut for Tie Bolt	Hexagon Nut for Tie Rod
			Cat. No.	Cat. No.	Cat. No.	Cat. No.	Cat. No.	Cat. No.	Cat. No.	Cat. No.	Cat. No.
A	36	48	123327	123328		116115	116122		123329	219067	
A $\frac{1}{3}$	14	18	224376	224376		161252	224384	224378		219067	148982
A $\frac{1}{2}$	18	24	224376	224376		116115	224385	457188		219067	148982
A $\frac{2}{3}$	22	29	224376	224376		224381	224386	224379		219067	148982
A $\frac{3}{4}$	26	34	224376	224376		224382	224387	224380		219067	148982
A $\frac{5}{6}$	30	40	224376	224376		224383	224388	455187		219067	148982
A1	56	74	123327	123328	192866		192867		123329		148982
A2	56	74	123327	192865	192866		192867		123329		148982
A3	28	36	123327	123328		161252	161253		123329	219067	
A4	48		123327	123328	1422497		1425996		123329		148982

NOTE.—Data subject to change without notice.
* Supersedes in part Bulletin No. 58223.

58355-2 Parts of CR 9145 Type RG Resistors



PARTS COMMON TO ALL FORMS LISTED IN THIS BULLETIN

Cat. No.	Description
116116	Steel plate washer back of nut ($\frac{11}{16}$ in. by $1\frac{1}{4}$ in. by 0.102 in. sherardized)
16135	National lock washer ($\frac{33}{32}$ in. by $1\frac{1}{4}$ in. by $\frac{1}{2}$ in. thick)
116118	Steel washer back of No. 16135 ($\frac{17}{16}$ in. by 2 in. by 0.114 in. sherardized)
116119	Mica spacing collar ($\frac{1}{8}$ in. by $2\frac{1}{2}$ in. by 0.625 in.)
116121	Cupped washer ($\frac{1}{8}$ in. hole)
437499	Mica washer between grids ($\frac{1}{8}$ in. by $2\frac{1}{4}$ in. by 0.03 in.)
1408312	Steel washer between grids when steel spacing sleeve is omitted ($\frac{1}{8}$ in. by 2 in. by 0.025 in.)
116125	Steel spacing sleeve $1\frac{1}{8}$ in. long
116126	Steel spacing sleeve $1\frac{1}{2}$ in. long
116127	Steel spacing sleeve $1\frac{3}{8}$ in. long
116128	Steel spacing sleeve $1\frac{5}{8}$ in. long
116129	Steel spacing sleeve $1\frac{7}{8}$ in. long
116130	Steel spacing sleeve $1\frac{9}{8}$ in. long
116131	Steel spacing sleeve $1\frac{1}{4}$ in. long
116132	Steel spacing sleeve $2\frac{1}{16}$ in. long
116133	Steel spacing sleeve $2\frac{1}{8}$ in. long
116134	Steel spacing sleeve $2\frac{3}{8}$ in. long
116135	Steel spacing sleeve $2\frac{1}{2}$ in. long
116136	Steel spacing sleeve $2\frac{7}{8}$ in. long
116137	Steel spacing sleeve 3 in. long
116138	Steel spacing sleeve $3\frac{1}{8}$ in. long
201209	Steel spacing sleeve $3\frac{3}{8}$ in. long
116139	Steel spacing sleeve $3\frac{5}{8}$ in. long
116140	Steel spacing sleeve $4\frac{1}{4}$ in. long
116141	Steel spacing sleeve $4\frac{1}{8}$ in. long
116142	Connection strip for grids
116145	Steel spacer between grids, opposite connection strip and terminal
157849	Terminal with terminal bushing, clamping bolt, nut and washer
157850	Clamping bolt for terminal ($\frac{3}{8}$ in.-16, 1 in. sq. h. sherardized)
141257	Nut for clamping bolt ($\frac{3}{8}$ in.-16, $\frac{1}{4}$ in. thick, hex. st'd, sherardized)
139517	Spring lock washer for nut ($\frac{11}{32}$ in. by $\frac{33}{32}$ in. by 0.0625 in.)
157851	Terminal bushing for terminal

SPECIAL TERMINALS FOR LOCOMOTIVE SERVICE

192870	Flat steel strip, drilled for terminal connection, busbar or punched copper tube cable terminal connection ($3\frac{3}{4}$ in. long, $\frac{11}{32}$ in. bolt hole)
192868	Flat steel strip, drilled for terminal connection, busbar or punched copper tube cable terminal connection ($4\frac{1}{2}$ in. long, $\frac{11}{32}$ in. bolt hole)
192869	Flat steel strip, drilled for terminal connection, busbar or punched copper tube cable terminal connection ($4\frac{1}{2}$ in. long, $\frac{11}{32}$ in. bolt hole)
116145	Steel spacer between grids, opposite flat steel strip
207549	Large terminal for cables, consists of two clamps with $\frac{1}{2}$ in. bolt, nut and washers (may be brought out at either top or bottom of resistor)
207550	Small terminal for cables, consists of two clamps with $\frac{3}{8}$ in. bolt, nut and washers (may be brought out at either top or bottom of resistor)
201153	Large clamp for cable, drilled for $\frac{1}{2}$ in. bolt
201154	Large clamp for cable, drilled for $\frac{3}{8}$ in. bolt
201155	Small clamp for cable, drilled for $\frac{1}{2}$ in. bolt
201156	Small clamp for cable, drilled for $\frac{3}{8}$ in. bolt
219099	Clamping bolt for Nos. 201153, 201155 ($\frac{1}{2}$ in.-13, $2\frac{1}{4}$ in. hex. h. sherardized)
219100	Clamping bolt for Nos. 201154, 201156 ($\frac{3}{8}$ in.-16, $1\frac{1}{8}$ in. hex. h. sherardized)
219101	Washer for No. 219099 ($\frac{11}{32}$ in. by $1\frac{3}{8}$ in. by 0.125 in. sherardized)
141259	Washer for No. 219100 ($\frac{11}{32}$ in. by $\frac{3}{4}$ in. by 0.0625 in. sherardized)
146149	Nut for No. 219099 ($\frac{1}{2}$ in.-13, hex. st'd, sherardized)
141255	Nut for No. 219100 ($\frac{3}{8}$ in.-16, hex. st'd, sherardized)
154198	Spring lock washer for No. 146149 ($\frac{11}{32}$ in. by $1\frac{1}{2}$ in. by $\frac{1}{8}$ in. thick)
154197	Spring lock washer for No. 141255 ($\frac{11}{32}$ in. by $\frac{33}{32}$ in. by $\frac{1}{8}$ in. thick)

GENERAL ELECTRIC COMPANY

58855-4 Parts of CR 9145 Type RG Resistors

NOMENCLATURE

Each resistor has a significant rating depending on the size, number and connections of its grids.

Each resistor is designated by the symbol CR 9145 RG followed by a group or groups of symbols separated by dashes, the symbols in each group consisting of three parts, viz.:

- (1) A figure indicating the size and capacity of the grids in the group.
- (2) A letter indicating the way in which the grids are connected within the group: "A" indicating that the grids are connected in series; "B" that two grids are connected in multiple, the sets in series; "C" indicating three grids in multiple, the sets in series; "D" indicating four grids in multiple, the sets in series
- (3) A figure indicating the number of grids in the group.

Illustrating the above, CR 9145 RG-7A18-T-7A18 is a resistor containing 36 No. 7 grids, all connected in series.

CR 9145 RG-7B18-T-7B18 is a resistor composed entirely of No. 7 grids connected two in multiple and containing 36 grids. CR 9145 RG-7C18-T-7C18 indicates that the same grids are used, but that they are connected three in multiple and the sets in series.

Referring to the example of ratings given above, the "T" indicates that connection is made at the top of the box between the left- and right-hand groups of grids. If connection is made at the bottom of the box the letter "T" is replaced by "Y."