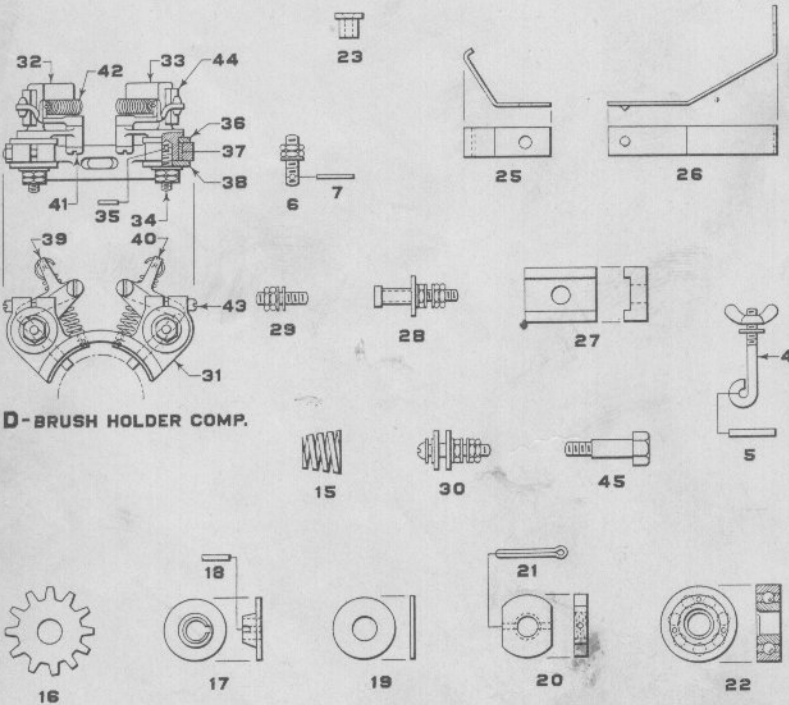


A—MODEL 2A MOTOR COMPLETE—25 VOLTS
 B—MODEL 2A MOTOR COMPLETE—110 VOLTS



D—BRUSH HOLDER COMP.

Model 2A Motors—25 volts or 110 volts

March 1916

GENERAL RAILWAY SIGNAL COMPANY

**Model 2A, Direct-Current
Motor and Motor Parts**

25 volts, 110 volts

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	Motor Complete as shown. (25 volts).....	35830
B	Motor Complete (110 volts).....	34605
C	Armature Complete, for 25 volt Motor.....	35831
C1	Armature Complete, for 110 volt Motor.....	34680
D	Brush Holder Bracket Complete as shown. (1-31, 1-32a, 1-33a, 2-36, 2-37, 2-38, 2-43, 2-44).....	
1	Motor Frame only.....	29825
2	Bearing Bracket, with Stud for Brush Holder Bracket, Eye Bolt, Wing Nut, Ground Post, Pins, Nuts and Washers. (1-Bracket, 1-4a, 1-6, 1-7, 1-29).....	
2a	as above, except with Cover, Binding Post, Bushings, Cap Screws and Cotter Pin. (1-2, 2-3, 1-8, 2-23, 1-24, 1-30).....	
3	Cap Screw, $\frac{5}{16}$ " x $1\frac{1}{4}$ " hex. hd., for fastening Bearing Bracket Fig. 2 to Frame Fig. 1.....	20557
4	Eye Bolt only.....	29963
4a	as above, except with Wing Nut, Washer and Pin. (1-4, 1-4b, 1-4c, 1-5).....	
4b	Washer, for Eye Bolt Fig. 4.....	069
4c	Wing Nut, for Eye Bolt Fig. 4.....	29995
5	Pin, $\frac{3}{16}$ " x $\frac{1}{16}$ ", for fastening Eye Bolt Fig. 4 to Bearing Bracket Fig. 2.....	1494
6	Stud Complete, includes Nuts and Washer, for fastening Brush Holder Bracket Fig. D to Bearing Bracket Fig. 2. (1-6b, 2-6c, 1-6d).....	
6a	as above, except with Pin Fig. 7. (1-6, 1-7).....	
6b	Stud, $\frac{1}{4}$ " x 1", for Fig. 6.....	7359
6c	Nut, $\frac{1}{4}$ " hex., for Stud Fig. 6.....	7395
6d	Washer, $\frac{1}{4}$ ", for Stud Fig. 6.....	1225
7	Pin, $\frac{1}{16}$ " x $\frac{3}{4}$ ", for fastening Stud Fig. 6 to Bearing Bracket Fig. 2.....	18112
8	Cover, with Rubber Gasket.....	
9	Field Coil, upper and lower, for 25 volt Motor.....	35833

Model 2A, Direct-Current
Motor and Motor Parts

25 volts, 110 volts

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Fig. No.	Name	Drawing Reference
Order by plate, figure number and name		
9a	Field Coil, upper and lower, for 110 volt Motor.....	29899
10	Field Coil, right and left, for 25 volt Motor.....	30873
10a	Field Coil, right and left, for 110 volt Motor.....	34686
11	Pole Piece, upper and lower.....	30852
12	Pole Piece, right and left.....	29864
13	Screw, $\frac{3}{8}$ " x 1" fill. hd., for fastening Pole Pieces Fig. 11 and Fig. 12 to Frame Fig. 1.....	19866
14	Washer, for Screw Fig. 13.....	071
15	Spring, for Friction Cone Fig. 17.....	30506
16	Motor Pinion.....	30075
17	Friction Cone, for Motor Pinion Fig. 16.....	30077
18	Pin, $\frac{1}{8}$ " x $\frac{9}{16}$ ", for Friction Cone Fig. 17.....	16448
19	Friction Washer, for Friction Cone Fig. 17.....	30078
20	Collar, for Pinion end of Shaft.....	30650
21	Cotter Pin, $\frac{1}{8}$ " x $1\frac{1}{4}$ ", for Collar Fig. 20.....	041
22	Ball Bearing Complete.....	47790
23	Bushing, for Lead Wires.....	27371
24	Cotter Pin, $\frac{1}{4}$ " x $3\frac{3}{4}$ ", for Cover Fig. 8.....	37885
25	Stop, for Contact Fig. 26.....	34689
26	Contact Spring.....	34688
27	Insulating Block, for Contact Spring Fig. 26.....	34690
28	Binding Post Complete as shown, for Insulating Block Fig. 27. (1-28a, 3-28b, 3-28c, 1-28d, 1-28e).....	
28a	Screw, $\frac{1}{4}$ " x $1\frac{1}{2}$ ", sq. hd., for Binding Post Fig. 28.....	16563
28b	Nut, $\frac{1}{4}$ " hex., for Binding Posts Fig. 28, Fig. 30 and Ground Post Fig. 29.....	7395
28c	Washer, $\frac{1}{4}$ ", for Binding Posts Fig. 28, Fig. 30 and Ground Post Fig. 29.....	1225
28d	Insulating Washer, for Binding Posts Fig. 28 and Fig. 30.....	4001
28e	Insulating Bushing, for Binding Posts Fig. 28 and Fig. 30.....	34692
29	Ground Post Complete as shown. (2-28b, 2-28c, 1-29a).....	
29a	Stud, $\frac{1}{4}$ " x 1", for Ground Post Fig. 29.....	7359

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Fig. No.	Name	Drawing Reference
Order by plate, figure number and name		
30	Common Binding Post Complete as shown. (3-28b, 5-28c, 2-28d, 1-28e, 1-30a).....	
30a	Screw, $\frac{1}{4}$ " x $1\frac{1}{4}$ " rd. hd., for Binding Post Fig. 30.....	9530
31	Brush Holder Bracket.....	30023
32	Brush Holder, left hand.....	1595
32a	as above, except with Spring Arm, Pivot Screw, Spring, Stud, Nuts and Washer. (1-32, 1-34, 1-35, 1-39, 1-41, 1-42)....	
33	Brush Holder, right hand.....	1596
33a	as above, except with Spring Arm, Pivot Screw, Spring, Stud, Nuts and Washers. (1-33, 1-34, 1-35, 1-40, 1-41, 1-42)....	
34	Stud Complete, includes Nuts and Washer, for Brush Holders Fig. 32 and Fig. 33. (2-28b, 1-28c, 1-34b).....	
34a	as above, except with Pin Fig. 35. (1-34, 1-35).....	
34b	Stud, $\frac{1}{4}$ " x $\frac{3}{4}$ ", for Fig. 34.....	17749
35	Pin, $\frac{1}{16}$ " x $\frac{3}{8}$ ", for fastening Stud Fig. 34 to Brush Holder Bracket Fig. 31.....	21193
36	Insulating Washer, square hole, for Brush Holder Bracket Fig. 31.....	1158
37	Insulating Bushing, for Brush Holder Bracket Fig. 31.....	1159
38	Insulating Washer, round hole, for Brush Holder Bracket Fig. 31.....	4001
39	Spring Arm, left hand.....	1597
40	Spring Arm, right hand.....	1598
41	Pivot Screw, for Spring Arms Fig. 39 and Fig. 40.....	1647
42	Spring, for Spring Arms Fig. 39 and Fig. 40.....	37936
43	Screw, No. 10 x $\frac{7}{8}$ " fill. hd., for Brush Holder Bracket Fig. 31..	6981
44	Brush, for Brush Holders Fig. 32 and Fig. 33.....	1150
45	Dowel Screw, for fastening Motor to Case.....	30049