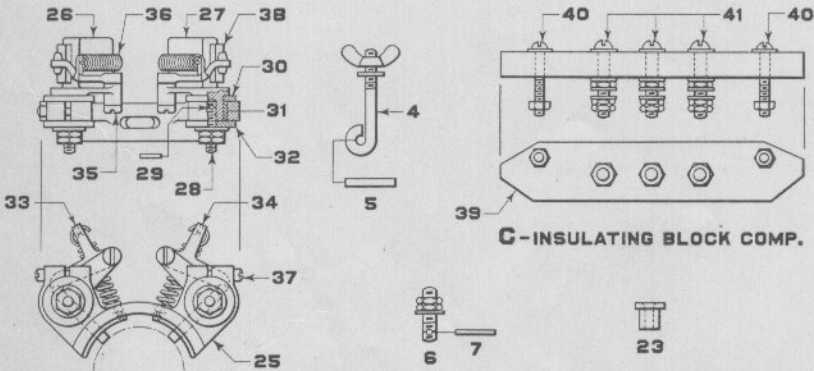
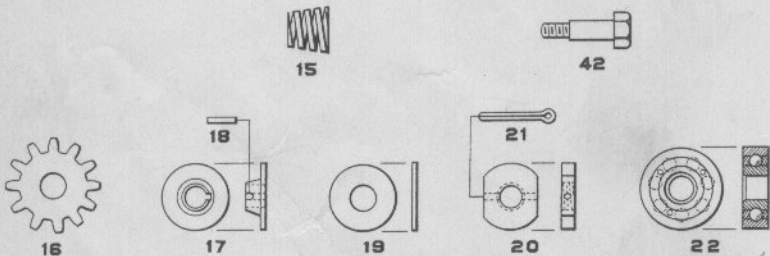


MODEL 2A MOTOR COMPLETE - 110 VOLTS



C-INSULATING BLOCK COMP.

B-BRUSH HOLDER COMP.



Model 2A Motors—110 volts

Model 2A, Direct-Current
Motor and Motor Parts
 110 volts

NOTE: Motor as illustrated on opposite page is shown for convenience in ordering repair parts only. It is superseded by 110 volt motor shown on Plate H1304 which should be specified when a 110 volt motor complete is required.

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	Armature Complete, for 110 volt Motor.	30851
B	Brush Holder Bracket Complete as shown. (1-25, 1-26a, 1-27a, 2-30, 2-31, 2-32, 2-37, 2-38).	
C	Insulating Block Complete as shown. (1-39, 2-40, 3-41).	
1	Motor Frame only.	29825
2	Bearing Bracket, with Stud for Brush Holder Bracket, Eye Bolt, Wing Nut, Pins, Nuts and Washers. (1-Bracket, 1-4a, 1-6, 1-7).	
2a	as above, except with Cover, Bushings, Cap Screws and Cotter Pin. (1-2, 2-3, 1-8, 3-23, 1-24).	
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 $1\frac{1}{8}$ ", for fastening Eye Bolt Fig. 4 to Bearing Bracket Fig. 2.	7568
6	Stud Complete, includes Nuts and Washer, for fastening Brush Holder Bracket Fig. B 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 Studs Fig. 6 and Fig. 28.	7395
6d	Washer, $\frac{1}{4}$ ", for Studs Fig. 6 and Fig. 28.	1225
7	Pin, $\frac{1}{16}$ " x $\frac{3}{4}$ ", for fastening Stud Fig. 6 to Bearing Bracket Fig. 2.	13112
8	Cover, with Gasket.	

Model 2A, Direct-Current
Motor and Motor Parts
 110 volts

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Fig. No.	Name	Drawing Reference
Order by plate, figure number and name		
9	Field Coil, upper and lower.....	29899
10	Field Coil, right and left.....	29898
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	Brush Holder Bracket.....	30023
26	Brush Holder, left hand.....	1595
26a	as above, except with Spring Arm, Pivot Screw, Spring, Stud, Nuts and Washer. (1-26, 1-28, 1-29, 1-33, 1-35, 1-36).....	
27	Brush Holder, right hand.....	1596
27a	as above, except with Spring Arm, Pivot Screw, Spring, Stud, Nuts and Washers. (1-27, 1-28, 1-29, 1-34, 1-35, 1-36).....	
28	Stud Complete, includes Nuts and Washer, for Brush Holders Fig. 26 and Fig. 27. (2-6c, 1-6d, 1-28b).....	
28a	as above, except with Pin Fig. 29. (1-28, 1-29).....	
28b	Stud, $\frac{1}{4}$ " x $\frac{3}{4}$ ", for Fig. 28.....	17749
29	Pin, $\frac{1}{16}$ " x $\frac{3}{8}$ ", for fastening Stud Fig. 28 to Brush Holder Bracket Fig. 25.....	21193
30	Insulating Washer, square hole, for Brush Holder Bracket Fig. 25.....	1158

March 1916

GENERAL RAILWAY SIGNAL COMPANY

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

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Fig. No.	Name	Drawing Reference
Order by plate, figure number and name		
31	Insulating Bushing, for Brush Holder Bracket Fig. 25.	1159
32	Insulating Washer, round hole, for Brush Holder Bracket Fig. 25.	4001
33	Spring Arm, left hand.....	1597
34	Spring Arm, right hand.....	1598
35	Pivot Screw, for Spring Arms Fig. 33 and Fig. 34.....	1647
36	Spring, for Spring Arms Fig. 33 and Fig. 34.....	37936
37	Screw, No. 10 x $\frac{7}{8}$ " fill. hd., for Brush Holder Bracket Fig. 25..	6981
38	Brush, for Brush Holders Fig. 26 and Fig. 27.....	1150
39	Insulating Block, for Fig. C.....	32723
40	Screw Complete, includes Nut and Washer, for fastening Insulating Block Fig. 39 to Bearing Bracket Fig. 2. (1-40a, 1-40b, 1-40c).....	
40a	Screw, No. 10 x $1\frac{1}{4}$ " rd. hd., for Fig. 40.....	4591
40b	Nut, No. 10 hex., for Screw Fig. 40.....	577
40c	Washer, for Screw Fig. 40.....	5046
41	Binding Post Complete, includes Screw, Nuts and Washers, for Insulating Block Fig. C. (1-41a, 3-41b, 3-41c).....	
41a	Screw, $\frac{1}{4}$ " x $1\frac{1}{4}$ " rd. hd., for Binding Post Fig. 41.....	9530
41b	Nut, $\frac{1}{4}$ " hex., for Binding Post Fig. 41.....	7395
41c	Washer, $\frac{1}{4}$ ", for Binding Post Fig. 41.....	1225
42	Dowel Screw, for fastening Motor to Case.....	30049