

General Electric Company

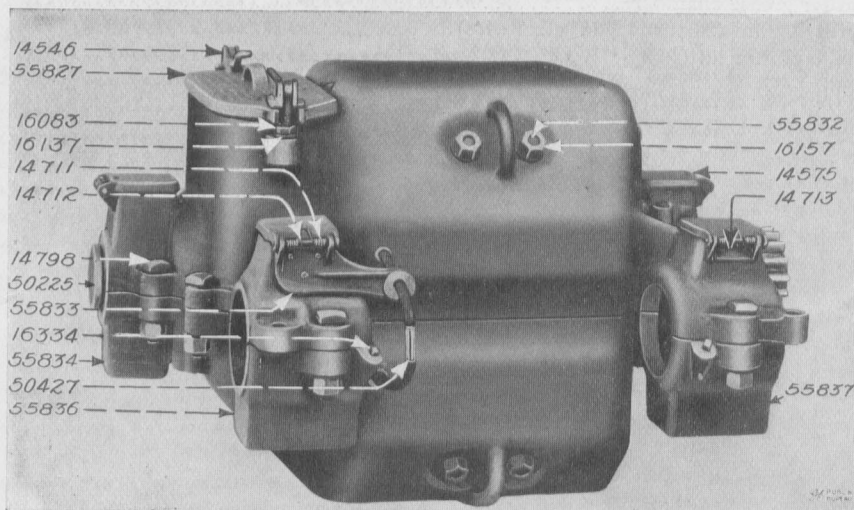
Schenectady, N.Y.

SUPPLY DEPARTMENT

July, 1907

*Bulletin No. 4522

PARTS OF GE 67-A RAILWAY MOTOR



GE 67-A RAILWAY MOTOR

TABLE OF WEIGHTS

Motor, complete, without axle gear and case.....	2180 lbs.
Armature and Pinion (17 teeth).....	603 "
Axle gear (67 teeth).....	157 "
Gear case.....	128 "
Electric Brake attachment, complete.....	320 "

Cat. No.

Description

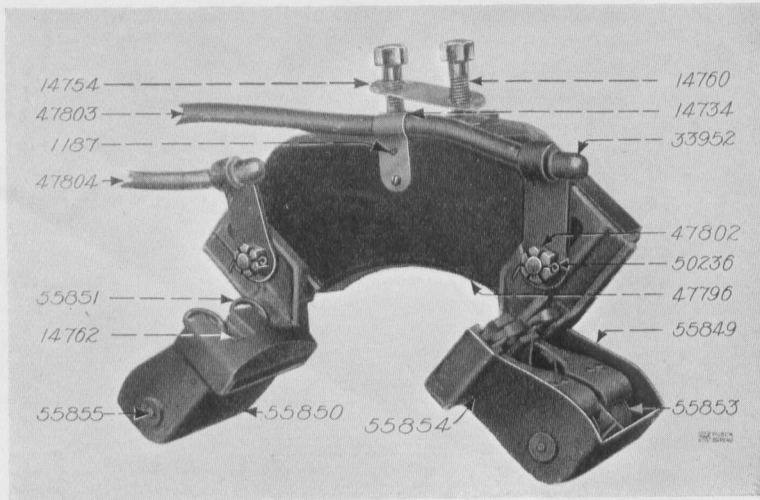
55826	FRAME, complete. (Includes upper and lower field castings, lid for upper casting, lid for lower casting, pole shoes, bearing caps and linings, oil feeders, hinge bracket, and all bolts, pins, etc., fastening parts together.....)
55827	Lid for upper casting.....
14546	Cam with eye bolt fastening lid in position.....
16083	Nut for cam eye bolt ($\frac{5}{8}$ "-11, $\frac{3}{8}$ " thick Hex.).....
16137	Lock washer for cam eye bolt.....
14547	Spring cotter for lid ($\frac{1}{4}$ " x $2\frac{1}{2}$ ").....
55828	Lid for ventilating hole, with packing, for upper casting.....
50211	Lid for lower casting, with packing.....
55829	Cap screw fastening No. 55828 to upper casting ($\frac{5}{8}$ "-11, $1\frac{1}{4}$ " Hex. H.).....
55830	Bolt fastening No. 50211 to lower casting ($\frac{5}{8}$ "-11, 2" Sq. H.).....
16074	Nut for No. 55830 ($\frac{5}{8}$ "-11 Hex.).....
16137	Lock washer for Nos. 55829, 16074.....

* Supersedes Catalogue No. 7558.

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4522-2 Parts of GE 67-A Railway Motor

Cat. No.	Description
55831	Soft rubber bushing for use with cables.....
14798	Bolt fastening upper and lower castings together and bearing caps in position ($\frac{7}{8}$ "-9, 4" Sq. H. Sp'l).....
14549	Hinge bolt ($\frac{7}{8}$ "-9, 3 $\frac{1}{4}$ " Sp'l).....
55832	Bolt fastening pole shoes in position ($\frac{7}{8}$ "-9, 5 $\frac{1}{2}$ " Sq. H.).....
16157	Nut for Nos. 14798, 14549, 55832 ($\frac{7}{8}$ "-9 Hex.).....
16135	Lock washer for No. 16157.....
14551	Hinge pin for frame ($\frac{7}{8}$ " x 4 $\frac{3}{8}$ ").....
16064	Spring cotter for hinge pin ($\frac{3}{16}$ " x 1 $\frac{1}{4}$ ").....
14575	Lid for grease chamber.....
14711	Spring for lid (24 turns .065" steel wire).....
14712	Hinge pin for lid ($\frac{1}{4}$ " x 3 $\frac{3}{8}$ ").....



14713	Hinge for lid, with rivets.....
55833	Hinge bracket for lid, with rivets.....
55834	*ARMATURE BEARING CAP, commutator end.....
55835	*Armature bearing cap, pinion end.....
55836	*Axle bearing cap, commutator end.....
55837	*Axle bearing cap, pinion end.....
16334	Plug for oil holes in bearing caps ($\frac{3}{8}$ " pipe).....
14732	Oil feeder.....
50413	Suspension bolt (1"-8, 3 $\frac{3}{8}$ " Sq. H.).....
15443	Nut for No. 50413 (1"-8 Hex.).....
16130	Lock washer for No. 15443.....
55838	Axle bearing lining, babbitted (2 halves, 4 $\frac{1}{2}$ " bore).....
55839	Axle bearing lining, babbitted (2 halves, 4" bore).....
55840	Axle bearing lining, babbitted (2 halves, 3 $\frac{3}{8}$ " bore).....
55841	Axle bearing lining, babbitted (2 halves, 3 $\frac{3}{8}$ " bore).....
55842	Axle bearing lining, composition (2 halves, 4 $\frac{1}{2}$ " bore).....
55843	Armature bearing lining, commutator end, babbitted.....
55844	Armature bearing lining, pinion end, babbitted.....
50225	Plug for No. 55843.....

* Must be fitted.

Cat. No.	Description
47794	BRUSH-HOLDER YOKE, complete, with holders and cables, for 3 turn motor. Supersedes Cat. No. 55845.
47795	Brush-holder yoke, complete, with holders and cables, for 4 turn motor.
47796	Brush-holder yoke, with end plates, bracket and cap screws. Supersedes Cat. No. 55846.
55847	Right-hand brush-holder, complete, for No. 47794.
47797	Right-hand brush-holder, complete, for No. 47795.
55848	Left-hand brush-holder, complete, for No. 47794.
47798	Left-hand brush-holder, complete, for No. 47795.
55849	Right-hand body, with pins, for No. 47794.
47799	Right-hand body, with pins, for No. 47795.
55850	Left-hand body, with pins, for No. 47794.
47800	Left-hand body, with pins, for No. 47795.
55851	Pressure arm, with contact spring, tip and flexible pigtail connector.
14762	Contact spring, with tip and rivets.
55852	Flexible pigtail connector, for No. 55851.
24591	Side washer for pressure arm.
55853	Tension spring (10 turns, .090" steel music wire).
55854	Pin for tension spring ($\frac{3}{16}$ " x $3\frac{13}{16}$ " Pin H.).
47801	Sleeve for No. 55854 ($\frac{3}{16}$ " x $\frac{5}{16}$ " x $1\frac{1}{2}$ " long fiber).
45163	Washer for No. 47801 ($\frac{3}{16}$ " x $\frac{5}{8}$ " x $\frac{1}{16}$ " thick fiber).
55855	Hinge pin for pressure arm ($\frac{1}{4}$ " x $3\frac{15}{16}$ " Pin H.).
10110	Spring cotter for No. 55855 ($\frac{5}{64}$ " x $\frac{1}{2}$ ").
14760	Cap screw fastening yoke to frame ($\frac{3}{8}$ "-11, $1\frac{7}{8}$ " Hex. H.).
14754	Washer plate for No. 14760.
47802	Crown nut, for bolt fastening body to yoke ($\frac{1}{2}$ "-13, Hex. Sp'l).
50236	Cotter pin for No. 47802.
47803	Right-hand cable, with tip (46" long, 49 No. 22 B. & S. wire).
47804	Left-hand cable, with tip (36" long, 49 No. 22 B. & S. wire).
33952	Tip for cables.
14734	Clip for (right-hand) cable
1187	Screw for clip (No. 10, $\frac{7}{8}$ " R.H.).
55856	CARBON BRUSH for 3 turn motor ($2\frac{1}{4}$ " long, $3\frac{3}{8}$ " wide, $\frac{1}{2}$ " thick), 1 required for each holder, 2 for each motor.
47805	Carbon brush for 4 turn motor ($2\frac{1}{4}$ " long, $3\frac{3}{8}$ " wide, $\frac{3}{8}$ " thick), 1 required for each holder, 2 for each motor.
55857	FIELD COIL, complete, for 3 turn armature.
55858	Field Coil, complete, for 3 turn armature, used with equipments having electric brake
24965	Field Coil, complete, for 4 turn armature.
55859	Flange for Nos. 55857, 55858.
47806	Flange for No. 24965.
55860	Oiled canvas pad for field coil.
55861	Outside terminal with connection strip and screws for No. 55857.
55862	Outside terminal with connection strip and screws for Nos. 24965, 55858.
55863	Inside terminal with connection strip and screws for No. 55857.
55864	Inside terminal with connection strip and screws for Nos. 24965, 55858.
45340	Screw for terminals (10-32, $\frac{1}{2}$ " R.H.).
14776	Short cable for coils (21" long, 49 No. 22 B. & S. wire).
55865	Short cable for coils, with connector.
50427	Two-way connector with screws for short cable.
6081	Screw for connector (10-24, $\frac{3}{8}$ " R.H. Blued).
14777	Long cable for coils (52" long, 49 No. 22 B. & S. wire).
14774	Inside connection cable for coils (7" long, 49 No. 22 B. & S. wire).
15215	Ground cable with screw tip (36" long, 49 No. 22 B. & S. wire).
15216	Screw tip for ground cable, with screws.
50428	Screw for No. 15216 (14-24, $\frac{1}{2}$ " R.H. Blued).

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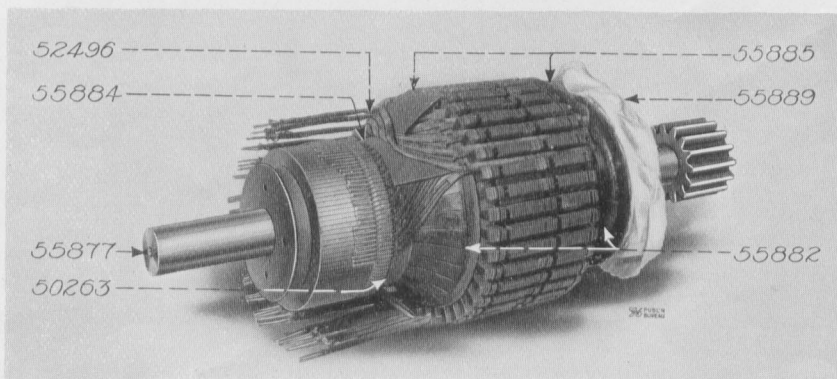
4522-4 Parts of GE 67-A Railway Motor

Cat. No.	Description
15946	Axle key.....
18429	Split gear, 62 teeth, $3\frac{3}{8}$ " bore, 6" hub diameter.....
18430	Split gear, 62 teeth, $3\frac{3}{4}$ " bore, 6" hub diameter.....
18431	Split gear, 62 teeth, 4" bore, 6" hub diameter.....
18892	Split gear, 62 teeth, $4\frac{1}{4}$ " bore, 6" hub diameter.....
45596	Split gear, 62 teeth, $4\frac{1}{2}$ " bore, $6\frac{3}{4}$ " hub diameter.....
18510	†Pinion, Grade "D," 22 teeth, $2\frac{3}{4}$ " taper bore for use with Nos. 18429, 18430, 18431, 18892, 28018.....
	§Pinion, Grade "C" (Identical with above except quality of material employed) Same catalogue number.....
18445	Split gear, 65 teeth, $3\frac{3}{8}$ " bore, 6" hub diameter.....
18446	Split gear, 65 teeth, $3\frac{3}{4}$ " bore, 6" hub diameter.....
18447	Split gear, 65 teeth, 4" bore, 6" hub diameter.....
28229	Split gear, 65 teeth, $4\frac{1}{4}$ " bore, $6\frac{3}{4}$ " hub diameter.....
28145	Split gear, 65 teeth, $4\frac{1}{2}$ " bore, $6\frac{3}{4}$ " hub diameter.....
18506	†Pinion, Grade "D," 19 teeth, $2\frac{3}{4}$ " taper bore for use with Nos. 18445, 18446, 18447, 28229, 28145.....
	§Pinion, Grade "C" (Identical with above except quality of material employed) Same catalogue number.....
30062	Split gear, 67 teeth, $3\frac{3}{8}$ " bore, 6" hub diameter.....
30063	Split gear, 67 teeth, $3\frac{3}{4}$ " bore, 6" hub diameter.....
30064	Split gear, 67 teeth, 4" bore, 6" hub diameter.....
45511	Split gear, 67 teeth, $4\frac{1}{4}$ " bore, 6" hub diameter.....
45537	Split gear, 67 teeth, $4\frac{1}{2}$ " bore, $6\frac{3}{4}$ " hub diameter.....
18502	†Pinion, Grade "D," 17 teeth, $2\frac{3}{4}$ " taper bore for use with Nos. 30062, 30063, 30064, 45511, 45537.....
	§Pinion, Grade "C" (Identical with above except quality of material employed) Same catalogue number.....
18463	Split gear, 69 teeth, $3\frac{3}{8}$ " bore, 6" hub diameter.....
26698	Split gear, 69 teeth, $3\frac{3}{4}$ " bore, 6" hub diameter.....
26696	Split gear, 69 teeth, 4" bore, 6" hub diameter.....
18873	Split gear, 69 teeth, $4\frac{1}{4}$ " bore, $6\frac{3}{4}$ " hub diameter.....
26697	Split gear, 69 teeth, $4\frac{1}{2}$ " bore, $6\frac{3}{4}$ " hub diameter.....
18494	†Pinion, Grade "D," 15 teeth, $2\frac{3}{4}$ " taper bore for use with Nos. 18463, 26698, 26696, 18873, 26697.....
	§Pinion, Grade "C" (Identical with above except quality of material employed) Same catalogue number.....
43901	*Adjustable axle collar, 2 halves ($3\frac{3}{8}$ " axle).....
43915	*Adjustable axle collar, 2 halves ($3\frac{3}{4}$ " axle).....
43933	*Adjustable axle collar, 2 halves (4" axle).....
43948	*Adjustable axle collar, 2 halves ($4\frac{1}{4}$ " axle).....
43957	*Adjustable axle collar, 2 halves ($4\frac{1}{2}$ " axle).....
50436	Screw for adjusting axle collars from 7" to 9" (1"-8, $6\frac{7}{8}$ " Sp'1).....
17981	Bolt for collar ($\frac{3}{4}$ "-10, $3\frac{1}{2}$ " Sq. H.).....
16326	Nut for bolt ($\frac{3}{4}$ "-10 Hex.).....
16136	Lock washer for nut.....
17985	Spring cotter for adjusting screw ($\frac{3}{16}$ " x $2\frac{1}{4}$ ").....
14795	GEAR CASE (Symbol DE 6), complete, without dust guard, adapted for use with gear having 6" hub diameter. Max. gear, 67 teeth, Max. pinion, 20 teeth (Malleable Iron).....
21686	Gear Case (Symbol DE 134), complete, with dust guard, adapted for use with gear having 6" hub diameter. Max. gear, 67 teeth, Max. pinion, 20 teeth (Malleable Iron)
21687	Gear Case (Symbol DE 119), complete, without dust guard, adapted for use with gear having $6\frac{3}{4}$ " hub diameter. Max. gear, 67 teeth, Max. pinion, 20 teeth (Malleable Iron).....
	* Includes adjusting screw. † Grade "D" pinion furnished with all original equipments.
	§ Unless otherwise designated, supply orders will be filled with Grade "C".

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Parts of GE 67-A Railway Motor 4522-5

Cat. No.	Description
21688	Gear Case (Symbol DE 132), complete, with dust guard, adapted for use with gear having 6 $\frac{3}{4}$ " hub diameter. Max. gear, 67 teeth, Max. pinion, 20 teeth (Malleable Iron).....
55868	Gear Case (Symbol DE 14), complete, without dust guard, adapted for use with gear having 6" hub diameter. Max. gear, 70 teeth, Max. pinion, 18 teeth (Malleable Iron).....
21689	Gear Case (Symbol DE 135), complete, with dust guard, adapted for use with gear having 6" hub diameter. Max. gear, 70 teeth, Max. pinion, 18 teeth (Malleable Iron).....
21690	Gear Case (Symbol DE 121), complete, without dust guard, adapted for use with gear having 6 $\frac{3}{4}$ " hub diameter. Max. gear, 70 teeth, Max. pinion, 18 teeth (Malleable Iron).....
21691	Gear Case (Symbol DE 136), complete, with dust guard, adapted for use with gear having 6 $\frac{3}{4}$ " hub diameter. Max. gear, 70 teeth, Max. pinion, 18 teeth (Malleable Iron).....
55869	Gear Case (Symbol DE 13), complete, without dust guard, adapted for use with gear having 6" hub diameter. Max. gear, 62 teeth, Max. pinion, 24 teeth (Malleable Iron).....



21692	Gear Case (Symbol DE 137), complete, with dust guard, adapted for use with gear having 6" hub diameter. Max. gear, 62 teeth, Max. pinion, 24 teeth (Malleable Iron).....
21693	Gear Case (Symbol DE 120), complete, without dust guard, adapted for use with gear having 6 $\frac{3}{4}$ " hub diameter. Max. gear, 62 teeth, Max. pinion, 24 teeth (Malleable Iron).....
21694	Gear Case (Symbol DE 138), complete, with dust guard, adapted for use with gear having 6 $\frac{3}{4}$ " hub diameter. Max. gear, 62 teeth, Max. pinion, 24 teeth (Malleable Iron).....
17462	Lid for oil hole, with spring and hinge pin, complete.....
17463	Spring for lid (20 turns .104" steel wire).....
17989	Hinge pin for lid (1/4" x 5 11/16").....
14798	Short bolt for gear case (7/8"-9, 4" Sq. H. Sp'l).....
14782	Long bolt for gear case (3/4"-9, 5 11/16" Sq. H. Sp'l).....
16157	Nut for bolt (7/8"-9, Hex.).....
16135	Lock washer for No. 16157.....
55870	†ARMATURE, 3 turn, complete, with pinion (No. 9 B. & S. E. D. C. C. wire).....
47807	†Armature, 4 turn, complete, with pinion (No. 9 B. & S. E. D. C. C. wire).....
36848	*Armature coil, 3 turn, No. 9 B. & S. (.114" E. D. C. C. wire), per set of 37.....
24964	*Armature coil, 4 turn, No. 9 B. & S. (.114" E. D. C. C. wire) per set of 25.....

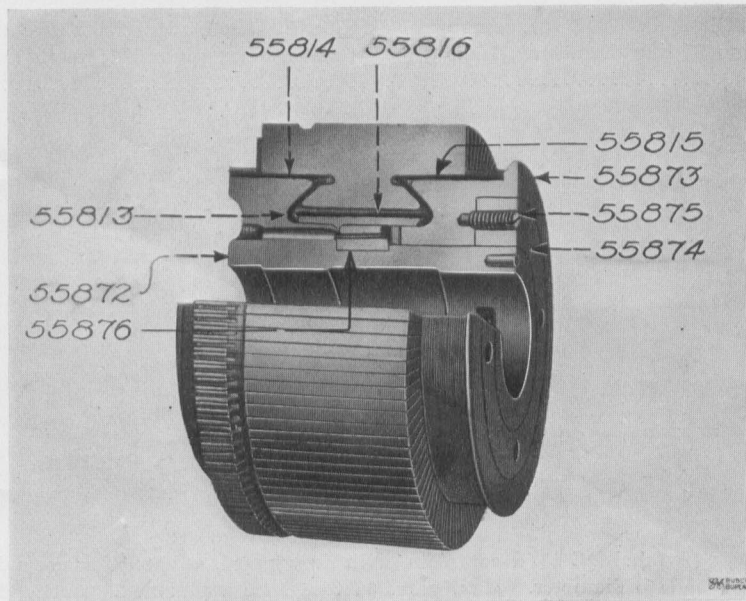
† Number of teeth in pinion must be specified.

* Cat. No. is for one coil.

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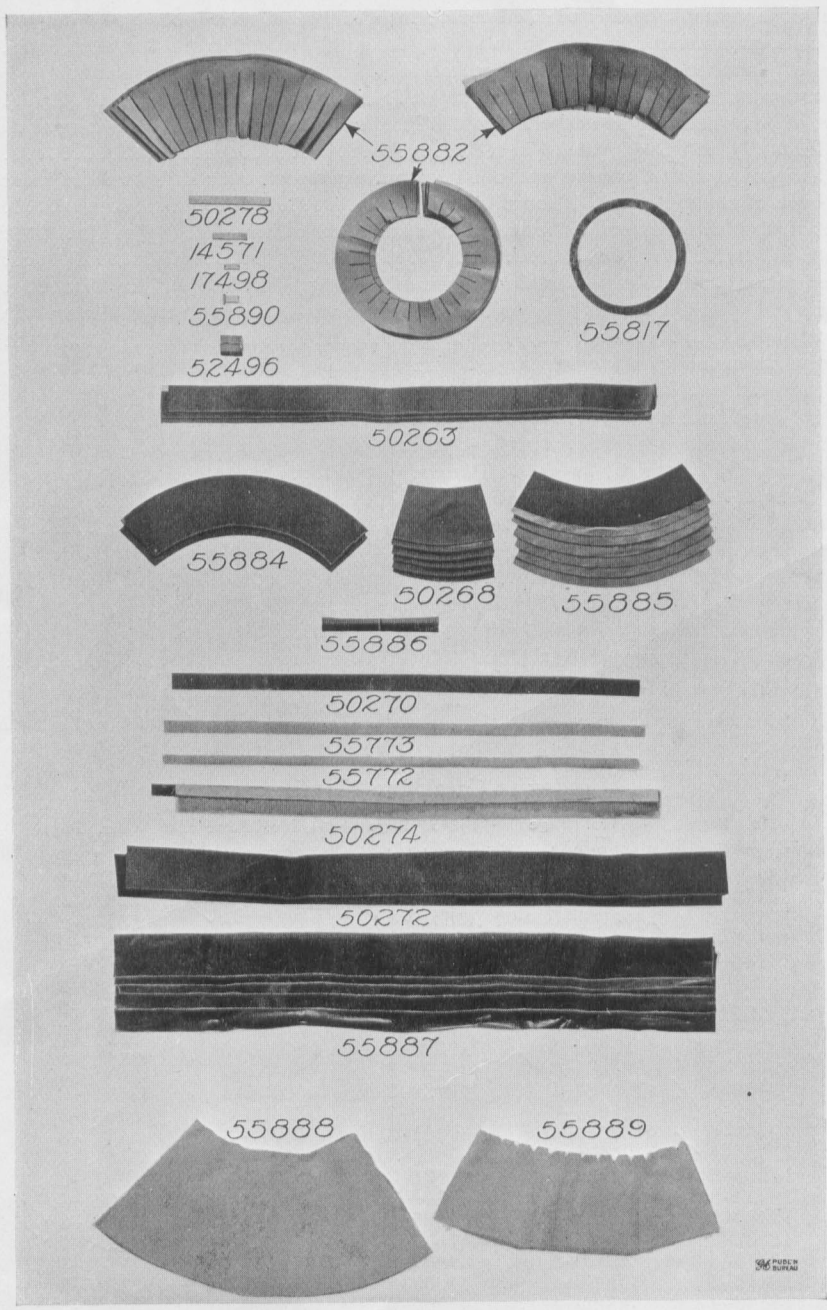
4522-6 Parts of GE 67-A Railway Motor

Cat. No.	Description
47809	Armature head, pinion end, for 3 turn armature.....
47810	Armature head, commutator end, for 3 turn armature.....
47811	Armature head, pinion end, for 4 turn armature.....
47812	Armature head, commutator end, for 4 turn armature.....
55871	COMMUTATOR, complete, for 3 turn armature.....
47808	Commutator, complete, for 4 turn armature.....
55872	Shell.....
55873	Cap.....
55874	Nut.....
55875	Set screw for nut ($\frac{3}{8}$ "-16, 1 $\frac{3}{16}$ " Pointed Headless).....
55876	Key for shell.....
55788	Set of copper and mica segments, finished and bound (111 segments), for No. 55871
24966	Set of copper and mica segments, finished and bound (125 segments), for No. 47808



55816	Mica collar.....
55813	Inner mica cone.....
55814	Wide outer mica cone.....
55815	Narrow outer mica cone.....
55877	SHAFT, bare.....
55878	Key for shaft (14 $\frac{3}{4}$ " x $\frac{1}{2}$ " x $\frac{1}{2}$ ").....
50430	Pinion key (3 $\frac{11}{16}$ " x $\frac{1}{2}$ " x $\frac{1}{2}$ ").....
50431	Pinion nut.....
13738	Washer for nut (2 $\frac{1}{8}$ " x 3 $\frac{1}{2}$ " x .062").....
55879	Thrust collar, with pin commutator end.....
55880	Thrust collar, pinion end.....
55882	Set of insulations for armature core, includes 5 thicknesses .010" red paper, 4 thicknesses .008" oiled cotton (5 $\frac{3}{8}$ " wide) for commutator end, 5 thicknesses .010" red paper, 4 thicknesses .008" oiled cotton (4" wide), for pinion end, and 5 thicknesses .010" red paper, 4 thicknesses .008" oiled cotton (11 $\frac{1}{2}$ " outside diam., 6 $\frac{1}{2}$ " inside diam., slotted edge), for core head flange pinion end, per set.....

† Number of teeth in pinion must be specified.



Cat. No.	Description
55817	Mica ring back of commutator segments.....
50263	Set of oiled asbestos over layer of rope, just back of commutator (3 strips, 40" long, 2" wide, .040" thick, 3 in set).....
55884	Set of japanned canvas and oiled cotton insulations over short leads under coils (2 thicknesses of canvas, 1 of oiled cotton, 18" long, 3 3/4" wide).....

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4522-8 Parts of GE 67-A Railway Motor

Cat. No.	Description
55885	Set of japanned canvas and oiled cotton insulations between inner and outer turns of coils, commutator and pinion ends (14 $\frac{1}{4}$ " long, 3 $\frac{1}{4}$ " wide, 6 in set, 3 at each end).....
52496	Set of japanned canvas and oiled cotton insulations under long leads at bend of coils, commutator end (1 $\frac{1}{2}$ " x 1 $\frac{1}{4}$ ", 37 in set).....
50268	Set of japanned canvas and oiled cotton insulations over coils between long and short leads (7 $\frac{1}{2}$ " long, 4 $\frac{1}{2}$ " wide, 6 in set).....
50270	Strip of japanned canvas and oiled cotton insulations over ends of short leads just back of commutator (34" long, 1 $\frac{1}{2}$ " wide).....
55886	Set of japanned pressboards between inner and outer coils in slots (8 $\frac{1}{2}$ " x $\frac{1}{2}$ " x .031" thick, 37 in set).....
55772	Red paper center band under binding wire (50" long, $\frac{3}{4}$ " wide, .010" thick).....
50272	Strip of japanned canvas over coils, commutator and pinion ends (45" long, 3" wide, 2 in set).....
55887	Set of varnished cambric dressings, commutator and pinion ends (6 pieces in set, 3 at each end, consists of two strips, 3 $\frac{1}{2}$ " wide, and 1 each strips 4 $\frac{1}{4}$ ", 4 $\frac{1}{2}$ ", 4 $\frac{3}{4}$ " and 7" wide, 46" long).....
50274	Insulation band back of commutator (cotton drill, oiled cotton, red paper, mica and asbestos, 36" long, 2" wide).....
55888	Outside dressing, commutator end.....
55889	Outside dressing, pinion end, slotted edge.....
55773	Red paper band over dressing at ends of slots (50" long, $\frac{1}{8}$ " wide, .010" thick).....
50278	Binding clip (6" x $\frac{3}{8}$ " x .020" tin).....
14571	Binding clip (2 $\frac{1}{2}$ " x $\frac{1}{2}$ " x .010" tin).....
17498	Binding clip (1 $\frac{3}{16}$ " x $\frac{3}{8}$ " x .010" tin).....
55890	T shaped binding clip (1 $\frac{1}{2}$ " x $\frac{1}{2}$ " x .020" tin).....

Acme tape used in connecting and binding armature ($\frac{3}{4}$ " wide); cord for filling ($\frac{3}{16}$ " diam. Hemp); cord for dressing No. 8; binding wire is .045" tinned Steel, requiring approximately 375 feet.

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