

## BRUSH REPLACEMENTS FOR ROTATING MACHINES

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*Note:* Do not include manufacturer's No. or grade No.

### 1. GENERAL

**1.01** This section covers information on ordering brushes for rotating machines used in telephone and telegraph power plants. Information on replacing and adjusting the brushes will be found in the section covering the particular machines involved.

**1.02** This section is reissued to revise the ordering information on brush replacements used in rotating machines in accordance with the latest available data. Revision arrows are used to emphasize the more significant changes.

**1.03** Part 2 describes how orders should be worded. Part 3 lists machines by KS number and gives information on the brushes needed for each type of machine. A few machines not covered by KS specifications are included. Part 4 shows the KS numbers of machines using each list number of brush.

### 2. METHOD OF EDITING THE ORDER

**2.01** When the brush required is covered by a KS-5555 list number under "Machines and Associated Brushes," word the orders as follows:

(quantity) Brushes KS-5555 L (No.)

**2.02** Brushes under KS-5009 and mercury interrupters retain their previously established ordering codes and should be ordered accordingly.

**2.03** When the brush required is not assigned a list number or other ordering code under "Machines and Associated Brushes" or where there is any question as to the proper brush to use, give the quantity required, the use to which the brush is to be put, and the nameplate data of the machine including the machine manufacturer's name. For example: (quantity) Commutator Brushes for KS-5652 L1 Dynamotor, Type SF-20-SS-3568, RPM 7000, Duty Intermittent, No. 1401, Input Volts 5.6, Amps 46, Output Volts 425, Amps 0.375, manufactured for Western Electric by Gothard Manufacturing Company. Orders by nameplate data will be filled with the latest standard brush for that particular machine where a complete set is ordered and with brushes to agree with the machine manufacturer's records where a partial set is ordered.

**2.04** The brush ordering information, as given herein, is intended to be complete so that copies of the coding information (KS-5555 for the majority of the brushes, P-247257 for mercury-type ringing interrupter brushes and ED-80672-01 for gauze brushes for M machines) should not be required by the supply or maintenance forces of the telephone company.

### 3. MACHINES AND ASSOCIATED BRUSHES

#### Explanation of Headings in Table A

**3.01** "Machine KS and Description" gives the manufacturing specification number, a brief description of the machine, and the position or function of the brushes. Dash numbers are not

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generally shown and, unless otherwise specified for the particular machine in question, the brush data apply to all of the machines under the KS base number.

**3.02** "No. per Machine" refers to the number of brushes of each kind required for the machine involved.

**3.03** "Latest" refers to the present standard brush for the machine involved. Brushes listed in this section for a particular machine shall be used when replacing a complete set of existing brushes. On partial replacement, where latest and existing brushes are not of the same grade and are not noted as interchangeable, a complete set of brushes should be ordered.

**3.04** "KS-5555 List No." refers to the ordering code for the brush. In addition to the size and grade, this covers all other details such as shunt, spring arrangement, and variation in shape.

**3.05** "Grade" is the brush manufacturer's designation of the brush material. The grade is usually designated on the brush and is sometimes combined with the brush manufacturer's trademark.

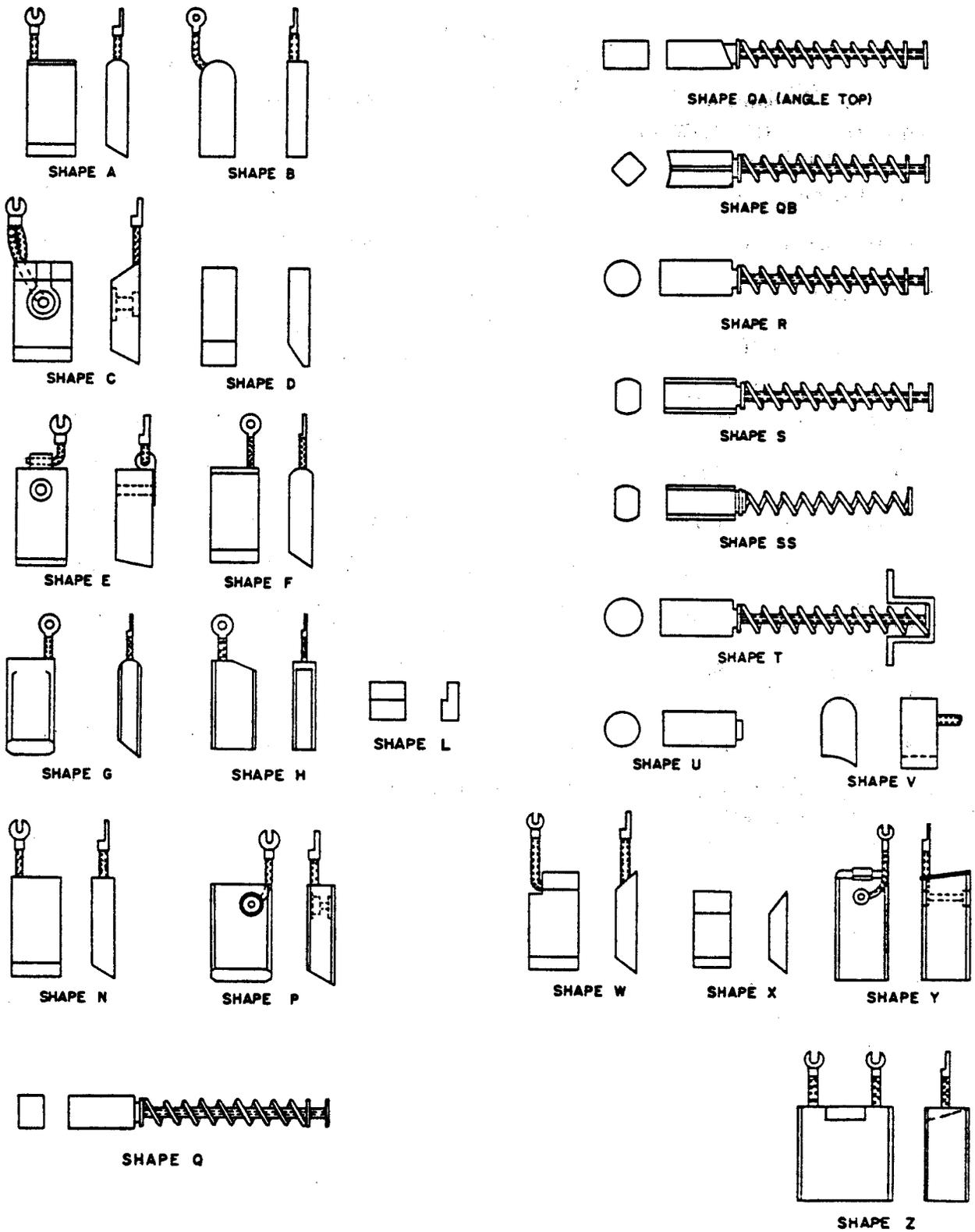
**3.06** The letters under "Shape" correspond to those in Fig. 1 and designate the approximate shape of the brush.

**3.07** "Size in Inches" covers the approximate overall dimensions which are usually expressed in the sequence: length, width (parallel to the axis of the shaft), and thickness. The lengths shown are for new brushes.

#### **4. BRUSHES AND ASSOCIATED MACHINES**

**4.01** Table B lists all of the brushes covered by KS-5555. The KS number opposite each brush list number indicates the machine which is currently using or has at one time used the brush. Where an \* is shown in front of the KS number of a machine, that machine no longer uses that particular list number brush. The brush list numbers marked with a † are now "Manufacture Discontinued," having been replaced by improved types.

**4.02** Reference should be made to "Machines and Associated Brushes" by KS number, where shown, for all detailed information as to the uses, number, status, etc, of the brushes on any machine. A particular brush may be used on several sizes of machines under the same KS number, such as KS-5123.



NOTE: THESE SHAPES ARE INTENDED TO SHOW ONLY THE GENERAL ARRANGEMENT OF THE BRUSHES.

Fig. 1—Shapes of Brushes

TABLE A

MACHINE KS AND DESCRIPTION			NO. PER MACH	KS-5555, LIST NO.	LATEST GRADE	SHAPE	BRUSH SIZE IN INCHES
5001 — DC MOTOR 10.5W 135- CYCLE MG							
Line-Driven Motor			2	1	405	Q	7/8 x 7/16 x 1/4
Battery-Driven Motor			2	2	9613	Q	7/8 x 7/16 x 1/4
Speed Reg			1	3	255	Q	5/8 x 1/4 x 1/4
5006 — DC MOTORS							
FRAME	HP	VOLTS					
CD-65	0.75	18-28	4	4	CM5	C	1-7/8 x 3/4 x 7/16
CD-65	1.2	18-28	4	4	CM5	C	1-7/8 x 3/4 x 7/16
CD-65	1.8	36-55	4	5	CM9	C	1-7/8 x 3/4 x 7/16
CD-55	0.75	36-55	4	6	CM9	C	1-7/8 x 3/4 x 3/8
CD-55	1.2	36-55	4	6	CM9	C	1-7/8 x 3/4 x 3/8
Motors for Power Service Voltages			Give nameplate data.				
Type TD-W Speed Reg			2	7	CM5	U	3/4 lg x 3/8 dia
5008 — RSA ONE-PHASE AC MOTORS							
Give nameplate data.							

TABLE A (Cont)

MACHINE  
KS AND DESCRIPTION  
5009—M-TYPE GENERATORS

	NO. BRUSHES		ED-80672-01 GROUP NO.				
	NON- LUB	LUB	NON- LUB	LUB			
M-1	4	None	5	—	Gauze	D	5 x 3/4 x 1/4
M-2	8	None	5	—	Gauze	D	5 x 3/4 x 1/4
M-2	6	2	7	1	Gauze	D	6 x 3/4 x 3/8
M-2	6	2	6	4	Gauze	D	5 x 1/2 x 3/8
M-3	8	None	—	—	Gauze	D	6 x 5/8 x 3/8
M-3	6	2	7	1	Gauze	D	6 x 3/4 x 3/8
M-4	12	None	5	—	Gauze	D	5 x 3/4 x 1/4
M-4	10	2	7	1	Gauze	D	6 x 3/4 x 3/8
M-5	18	None	5	—	Gauze	D	5 x 3/4 x 1/4
M-5	15	3	7	1	Gauze	D	6 x 3/4 x 3/8
M-5-1/2	12	4	8	2	Gauze	D	8 x 1 x 5/8
M-6	15	5	8	2	Gauze	D	8 x 1 x 5/8
M-7	15	5	8	2	Gauze	D	8 x 1 x 5/8
M-8	30	6	8	2	Gauze	D	8 x 1 x 5/8
M-9	30	6	9	3	Gauze	D	8 x 1 x 3/4
M-10	30	6	9	3	Gauze	D	8 x 1 x 3/4
M-15	42	6	9	3	Gauze	D	8 x 1 x 3/4

Brushes listed under Nonlub are not lubricating. Those under Lub cover a drilled brush with oil reservoir, wicking, etc. The total number of brushes per machine is the sum of the Lub and Nonlub. For method of ordering additional wicking and the procedure for installing such wicking, see Replacement Parts section on M machines.

Brush replacements must be of the same cross section, but not necessarily the same lengths as the old brush.

Group numbers are not assigned to the 5/8- by 3/8-inch brushes used at one time on M-3 machine, as it is thought that machines using this size brush are no longer in operation. If such a size is required, specify ED-80672-01, 6 inches by 3/8 inch by 5/8 inch, nonlubricating (or lubricating) brushes for use on an M-3 generator.

On M-2, M-3, M-4, and M-5 machines, the brush size of the machine on which replacements are to be made shall be ascertained in each instance and replacement brushes requisitioned accordingly.

M-TYPE MACHINES PRIOR  
TO KS SPECIFICATION

Above information on KS-5009 machine applies.

M-TYPE MACHINES MODIFIED  
TO USE CARBON BRUSHES

Replacement carbon brushes should be ordered in accordance with ED-80569-01, giving the size of the machine, such as M-8, for which the brushes are wanted.

TABLE A (Cont)

MACHINE KS AND DESCRIPTION	NO. PER MACH	LATEST		SHAPE	BRUSH
		KS-5555, LIST NO.	GRADE		SIZE IN INCHES
<b>5010 — RINGING GENERATOR</b>					
P1/6 and P1/4					
Collector Ring (20 cycles)	2	8	258	X	3/4 x 1/4 x 1/4
Pulsating	2	8	258	X	3/4 x 1/4 x 1/4
Commutator	2	9	CM6	W	3/4 x 1/2 x 1/4
P1/2					
Collector Ring (20 cycles)	2	10	258	X	3/4 x 3/8 x 1/4
Pulsating	2	10	258	X	3/4 x 3/8 x 1/4
Commutator	2	11	CM6	W	1 x 3/4 x 3/8
P1 and P2					
Collector Ring (20 cycles)	2	12	258	X	3/4 x 7/16 x 5/16
Pulsating	2	12	258	X	3/4 x 7/16 x 5/16
Commutator	4	11	CM6	W	1 x 3/4 x 3/8
<b>5011 — RINGING DYNAMOTOR</b>					
P1/6 and P1/4					
Collector Ring (20 cycles)	2	8	258	X	3/4 x 1/4 x 1/4
Pulsating	2	8	258	X	3/4 x 1/4 x 1/4
Commutator					
Line Drive	2	13	258	X	3/4 x 1/2 x 1/4
Battery Drive	2	9	CM6	W	3/4 x 1/2 x 1/4
P1/2					
Collector Ring (20 cycles)	2	10	258	X	3/4 x 3/8 x 1/4
Pulsating	2	10	258	X	3/4 x 3/8 x 1/4
Commutator					
Line Drive	2	14	258	X	1 x 3/4 x 3/8
Battery Drive	2	11	CM6	W	1 x 3/4 x 3/8
P1 and P2					
Collector Ring (20 cycles)	2	12	258	X	3/4 x 7/16 x 5/16
Pulsating	2	12	258	X	3/4 x 7/16 x 5/16
Commutator					
Line Drive	4	14	258	X	1 x 3/4 x 3/8
Battery Drive	4	11	CM6	W	1 x 3/4 x 3/8
<b>P-TYPE GENERATORS AND DYNAMOTORS PRIOR TO KS-5010 AND KS-5011</b>					
Give nameplate data.					
<b>5012 — SEGMENT-TYPE IN- TERRUPTERS FOR P-TYPE RINGING MACHINES</b>					
	12-33	124	850	X	11/16 x 11/32 x 3/16
	(variable)				
<b>SC-TYPE INTERRUPTERS PRIOR TO KS-5012</b>					
Give nameplate data.					
<b>5015 — DC MOTOR-DRIVEN 1000-CYCLE MG</b>					
DC Motor	2	2	9613	Q	7/8 x 7/16 x 1/4
Speed Reg (ring type)	1	3	255	Q	5/8 x 1/4 x 1/4
Interrupter	6	15	G	Q	9/16 x 1/4 x 1/4

TABLE A (Cont)

MACHINE KS AND DESCRIPTION	NO. PER MACH	LATEST KS-5555, LIST NO.	GRADE	SHAPE	BRUSH SIZE IN INCHES
5016 — ROTATING CAM- TYPE AUTOMATIC VOLTAGE REGULATOR FOR CHARGING GENERATOR	Give nameplate data.				
5017 — SPEED REGULATOR (RING TYPE)	Give nameplate data of associated motor.				
5020 — 1/12-HP, 60-CYCLE AC/DC DUPLEX MOTOR					
DC Motor	2	16	401	L	17/32 x 7/16 x 1/4
5021 — 1/16-HP, 25-CYCLE AC/DC DUPLEX MOTOR					
DC Motor	2	16	401	L	17/32 x 7/16 x 1/4
5028 } P-TYPE RINGING 5030 } AND CC GEN					
P1/2					
Collector Ring (20 cycles)	2	10	258	X	3/4 x 3/8 x 1/4
Pulsating	1	10	258	X	3/4 x 3/8 x 1/4
Commutator	2	125	R310	W	1 x 3/4 x 3/8
P1 and P2					
Collector Ring (20 cycles)	2	12	258	X	3/4 x 7/16 x 5/16
Pulsating	1	12	258	X	3/4 x 7/16 x 5/16
Commutator	4	125	R310	W	1 x 3/4 x 3/8
For segment-type interrupters, see KS-5012 listing.					
For mercury interrupter, see end of this list of machines.					
5032 — MOTOR MAGNETO (See 5032-01 below)					
DC Motor	2	301	255	B	1-1/8 x 1/2 x 3/8
AC Motor	2	302	258	T	1-5/16 lg x 3/8 dia
Magneto					
Collector Ring (20 cycles)					
Before Magneto No. 573947	2	303	255	R	1 lg x 1/4 dia
After Magneto No. 573946	2	332 SA2522		S	27/32 x 19/64 dia x 1/4 flat
Pulsating					
Before Magneto No. 573947	2	303	255	R	1 lg x 1/4 dia
After Magneto No. 573946	2	332 SA2522		S	27/32 x 19/64 dia x 1/4 flat
Magnetos are not always equipped with pulsating rings					Brushes changed from round (shape R) to round-flat (shape S) are not interchangeable.
5032-01 — MOTOR MAGNETO					
DC Motor	2	305	255	X	1-1/32 x 1/2 x 5/16
AC Motor	None				
Magneto					
Collector Ring (20 cycles)	2	332 SA2522		S	27/32 x 19/64 dia x 1/4 flat
Pulsating	2	332 SA2522		S	27/32 x 19/64 dia x 1/4 flat

TABLE A (Cont)

MACHINE KS AND DESCRIPTION	NO. PER MACH	LATEST KS-5555, LIST NO.	GRADE	SHAPE	BRUSH SIZE IN INCHES
5037 — WAGNER ONE-PHASE MOTORS	Give nameplate data.				
5039 — 5-TYPE DISTRIBUTOR DC Motor	2	19	EG3860	Q	3/4 x 1/4 x 1/4
5051 — DC-DRIVEN 1000-CYCLE PORTABLE MG					
DC Motor	2	21	G	Q	3/4 x 1/4 x 1/4
Speed Reg (center cont type)	1	3	255	Q	5/8 x 1/4 x 1/4
5064 — MG FOR 12-TYPE PRINTING TELEGRAPH	Refer to Teletype Corporation bulletin.				
5066 — DC-DRIVEN 10.5W 135-CYCLE MG					
Line-Driven Motor	2	1	405	Q	7/8 x 7/16 x 1/4
Battery-Driven Motor	2	2	9613	Q	7/8 x 7/16 x 1/4
Speed Reg	1	3	255	Q	5/8 x 1/4 x 1/4
5067 — DC-DRIVEN 1000-CYCLE MG					
DC Motor	2	2	9613	Q	7/8 x 7/16 x 1/4
Speed Reg (center cont type)	1	3	255	Q	5/8 x 1/4 x 1/4
Interrupter	6	15	G	Q	9/16 x 1/4 x 1/4
5068 — 4-CYCLE POLE CHANGER					
DC Motor	2	21	G	Q	3/4 x 1/4 x 1/4
Pole Changer (copper-flush mica)					
Slip Rings (dc)	4	23	405	*QA	1/2 x 1/4 x 1/4
Interrupter (4 cycles)	6	25	405	*QA	1/2 x 7/16 x 3/16
Pole Changer (brass-undercut mica)					
Slip Rings (dc)	4	24	M-95	*QA	1/2 x 1/4 x 1/4
Interrupter (4 cycles)	6	26	M-95	*QA	1/2 x 7/16 x 3/16
5072 — 1/8-HP DC TEST FRAME MOTOR					
DC Motor	2	2	9613	Q	7/8 x 7/16 x 1/4
Speed Reg (center cont type)	1	3	255	Q	5/8 x 1/4 x 1/4

\*Previous shape of lists 23, 24, 25, and 26 was Q.

TABLE A (Cont)

MACHINE KS AND DESCRIPTION	NO. PER MACH	LATEST		SHAPE	BRUSH
		KS-5555, LIST NO.	GRADE		SIZE IN INCHES
5073 — MULTIFREQUENCY MG					
DC Motor	2	2	9613	Q	7/8 x 7/16 x 1/4
Speed Reg (center cont type)	1	3	255	Q	5/8 x 1/4 x 1/4
5082 — GROUNDED TELE- GRAPH AND REPEATER PLATE CHARGING SETS		Give nameplate data.			
5099 — 1000-CYCLE MG					
DC Motor	2	2	9613	Q	7/8 x 7/16 x 1/4
Speed Reg (center cont type)	1	3	255	Q	5/8 x 1/4 x 1/4
5109 — 1/8-HP DC PRECISION INTERRUPTER MOTOR					
DC Motor	2	2	9613	Q	7/8 x 7/16 x 1/4
Speed Reg (center cont type)	1	3	255	Q	5/8 x 1/4 x 1/4
5117 — ROTATING CAM-TYPE AUTO. VOLT. REG FOR CHG GEN					
DC Motor	2	173	255	Q	0.69 x 1/4 x 1/4
5118 — MG FOR 12-TYPE PRINTING TELE- GRAPH		Refer to Teletype Corporation bulletin.			
5120 — ATT-TYPE BUFFALO ENGINE (STARTER)		Give starter nameplate data and engine serial and KS numbers.			
5123 — SYNCHRONOUS MOTOR					
		HP			
	4	20, 30, 40, 50, 75, and 115	61	H	N 1-3/8 x 3/4 x 1/2
	4**	20, 30, 40, 50, 75, and 115	108	D	N 1-3/8 x 3/4 x 1/2
5123 — EXCITERS EF2 AND EF3		4	122	B18	N 1-3/8 x 3/4 x 7/16

\*\*List 108 is used with bronze alloy collector rings and list 61 with cast-iron rings.

TABLE A (Cont)

MACHINE KS AND DESCRIPTION		NO. PER MACH		LATEST KS-5555, LIST NO. GRADE		BRUSH SHAPE SIZE IN INCHES			
5123	28, 33, 53, AND 65V COMMERCIAL GENERATORS	FRAME	V	A					
5123-01		CD-123	53	500	20	105	EG12	C	2-1/2 x 1-1/4 x 7/8
5123-02		CD-125	53	800	28	59	529	C	2-1/2 x 1-1/4 x 1-1/8
		CD-73	65	100	8	119	R310	C	1-7/8 x 1-1/4 x 3/8
		CD-85	65	200	12	120	R310	C	1-7/8 x 1 x 1/2
		CD-95	65	300	16	121	R310	C	2 x 1 x 3/4
		CD-103	65	400	16	105	†EG12	C	2-1/2 x 1-1/4 x 7/8
		CD-113	65	500	20	106	†EG12	C	2-1/2 x 1-1/4 x 1
		CD-115	65	750	28	177	581	N	2-1/2 x 1-1/4 x 1-1/8
		CD-133	65	1200	32	177	581	N	2-1/2 x 1-1/4 x 1-1/8
		CD-55	33	75	8	4	*CM5	C	1-7/8 x 3/4 x 7/16
		CD-55	33	75	8	42	*CM6	C	1-7/8 x 3/4 x 7/16
		B-254	33	75	4	104	CM5	C	1-1/4 x 1-1/4 x 1/2
		B-284	33	100	8	44	CM5	C	1-1/4 x 1 x 1/2
		CD-65	33	100	8	45	*CM5	C	1-7/8 x 1 x 1/2
		CD-65	33	100	8	46	*CM6	C	1-7/8 x 1 x 1/2
		CD-73	33	200	8	48	*CM5	C	1-7/8 x 1-1/4 x 5/8
		CD-73	33	200	8	49	*CM6	C	1-7/8 x 1-1/4 x 5/8
		CD-85	33	400	20	51	*CM5	C	1-7/8 x 1 x 5/8
		CD-85	33	400	20	52	*CM6	C	1-7/8 x 1 x 5/8
		CD-103	33	600	20	182	581	P	2-1/2 x 1-1/4 x 1
		CD-105	33	800	24	174	581	P	2-1/2 x 1-1/4 x 7/8
		CD-113	33	1000	28	182	581	P	2-1/2 x 1-1/4 x 1
		CD-123	28	1000	28	174	581	P	2-1/2 x 1-1/4 x 7/8
**	CD-115	28	1500	48	131	†X3	N	2-1/2 x 1-1/4 x 1	
5123-03 — GENERATORS									
		FRAME	V	A					
		B-284	33	100	8	44	CM5	C	1-1/4 x 1 x 1/2
		CD-73	33	200	8	48	*CM5	C	1-7/8 x 1-1/4 x 5/8
		CD-73	33	200	8	49	*CM6	C	1-7/8 x 1-1/4 x 5/8
		CD-85	33	400	20	128	CM5	C	1-7/8 x 1 x 3/4
		CD-103	33	600	20	182	581	P	2-1/2 x 1-1/4 x 1
		CD-105	33	800	24	183	581	N	2-1/2 x 1-1/4 x 7/8
		CD-73	65	100	8	129	R310	C	2 x 1-1/4 x 1/2
		CD-85	65	200	12	121	R310	C	2 x 1 x 3/4
		CD-85	65	200	12	120	R310	C	1-7/8 x 1 x 1/2
		CD-103	65	400	16	105	†EG12	C	2-1/2 x 1-1/4 x 7/8
		CD-113	65	500	20	106	†EG12	C	2-1/2 x 1-1/4 x 1
		CD-115	65	750	28	177	581	N	2-1/2 x 1-1/4 x 1-1/8

\*Grades CM5 and CM6 are not interchangeable. The grade now being used on a particular machine should be used for replacements. CG3 and CM6 are not interchangeable. The CM6 should be ordered in a complete set to replace either the CG3 or the KK3.

\*\*The 28 volts, 1500 amperes is also rated 33 volts, 1300 amperes.

†In case of trouble with the X3 grade, the 549 grade is suggested and may be ordered from General Electric Company by Catalog No. 5026944, Grade 549.

‡For bronze brush holders. When used in aluminum brush holders, they require additional sanding to change 25-degree face angle to 20 degrees.

TABLE A (Cont)

MACHINE KS AND DESCRIPTION			NO. PER MACH	LATEST KS-5555, LIST NO.	GRADE	SHAPE	BRUSH SIZE IN INCHES
<b>5123-04 — GENERATORS WITH V-TYPE BRUSH HOLDERS</b>							
FRAME	V	A					
B-284	33	100	8	160	B253	C	1-1/4 x 1 x 1/2
CD-67	33	200	8	161	B253	C	2 x 1-1/4 x 5/8
CD-85	33	400	16	162	B253	C	2 x 1 x 3/4
CD-1130Y	33	600	24	147	B253	C	2-1/4 x 1-1/2 x 3/8
CD-1133Y	33	800	32	147	B253	C	2-1/4 x 1-1/2 x 3/8
CD-1140Y	33	1000	40	147	B253	C	2-1/4 x 1-1/2 x 3/8
CD-1345Y	33	1500	48	148	B253	C	2-1/4 x 1-1/2 x 1/2
CD-67	65	100	8	163	B253	C	2 x 1-1/4 x 1/2
CD-85	65	200	12	162	B253	C	2 x 1 x 3/4
CD-1126Y	65	400	16	148	B253	C	2-1/4 x 1-1/2 x 1/2
CD-1133Y	65	500	24	148	B253	C	2-1/4 x 1-1/2 x 1/2
CD-1143Y	65	750	32	148	B253	C	2-1/4 x 1-1/2 x 1/2
CD-1345Y	65	1200	40	148	B253	C	2-1/4 x 1-1/2 x 1/2

**WITH CONSTANT  
PRESSURE BRUSH  
HOLDERS**

FRAME	V	A					
CD-1130Y	33	600	12	188	L352	C	2-7/8 x 1-1/2 x 3/4
CD-1133Y	33	800	16	188	L352	C	2-7/8 x 1-1/2 x 3/4
CD-1140Y	33	1000	20	188	L352	C	2-7/8 x 1-1/2 x 3/4
CD-1345Y	33	1500	24	189	L352	C	2-7/8 x 1-1/2 x 1
CD-1126Y	65	400	8	189	L352	C	2-7/8 x 1-1/2 x 1
CD-1133Y	65	500	12	189	L352	C	2-7/8 x 1-1/2 x 1
CD-1143Y	65	750	16	189	L352	C	2-7/8 x 1-1/2 x 1
CD-1345Y	65	1200	20	189	L352	C	2-7/8 x 1-1/2 x 1

TABLE A (Cont)

MACHINE KS AND DESCRIPTION				NO. PER MACH	LATEST KS-5555, LIST NO.	GRADE	SHAPE	BRUSH SIZE IN INCHES
5123-05 — GENERATORS WITH HELICAL SPRING OR CON- STANT PRESSURE BRUSH HOLDERS								
KS-5123-05, LIST	FRAME	V	A					
4	CY-546	33	600	16	191	L352	C	3 x 1-1/4 x 1
5	CY-548	33	800	20	191	L352	C	3 x 1-1/4 x 1
6	CY-549	33	1000	24	191	L352	C	3 x 1-1/4 x 1
7,18	CY-551	33	1500	28	192	L352	C	3-1/4 x 1-1/4 x 1-1/4
7,18	CY-699	33	1500	28	196	L352	C	2-3/4 x 1-1/2 x 1
10	CY-544	65	400	12	190	L352	C	2-3/4 x 1-1/4 x 3/4
11	CY-545	65	500	16	190	L352	C	2-3/4 x 1-1/4 x 3/4
12	CY-547	65	750	20	191	L352	C	3 x 1-1/4 x 1
13,22	CY-550	65	1200	24	192	L352	C	3-1/4 x 1-1/4 x 1-1/4
13,22	CY-698	65	1200	24	196	L352	C	2-3/4 x 1-1/2 x 1

5123-06 — GENERATORS  
WITH CONSTANT  
PRESSURE  
BRUSH HOLDERS

KS-5123-06, LIST	FRAME	V	A					
7,18	CY-697	33	1500	28	196	L352	C	2-3/4 x 1-1/2 x 1
13,22	CY-696	63	1200	24	196	L352	C	2-3/4 x 1-1/2 x 1

5126 — 1/20-HP DC MOTOR FOR OSCILLOGRAPH AND SEQUENCE SWITCH Give nameplate data.

TABLE A (Cont)

MACHINE KS AND DESCRIPTION		NO. PER MACH	LATEST KS-5555, LIST NO.	GRADE	SHAPE	BRUSH SIZE IN INCHES
5131 } 5132 }	MOTOR-DRIVEN TONE MACHINE					
Circular Segment Drum						
	High Tone	2	312	S	SS	3/4 x 3/16 dia x 1/8 flat
	Low Tone	1	312	S	SS	3/4 x 3/16 dia x 1/8 flat
	Tone Slip Ring	1	312	S	SS	3/4 x 3/16 dia x 1/8 flat
DC Motor						
	24 Volts	2	315	S	S	27/32 x 19/64 dia x 1/4 flat
	38 Volts	2	329	SA2522	S	27/32 x 19/64 dia x 1/4 flat
5133 — 1/2-AMP RINGING MACHINE						
Generator						
	Collector Ring (20 cycles) Pulsating	2	332	SA2522	S	27/32 x 19/64 dia x 1/4 flat
	Commutator (for gen used with ac motor only)	1	332	SA2522	S	27/32 x 19/64 dia x 1/4 flat
		2	330	SA2522	G	1-1/4 x 5/8 x 3/8
DC Motors						
	(20-28V) (31-43V)	2	314	S	G	1-1/4 x 5/8 x 3/8
	(40-56V) (44-50V)	2	330	SA2522	G	1-1/4 x 5/8 x 3/8
	(105-125V) (210-250V)					
	Speed Reg (KS-5133)	2	304	AC4	S	27/32 x 19/64 dia x 1/4 flat
	Speed Reg (KS-5133-01)	2	341	SA2522	Q	13/16 x 5/16 x 1/4
	AC Motor (On KS-5133 only)	2	302	258	T	1-5/16 lg x 3/8 dia
Tone Drums						
Circular Segment Type						
	High Tone	2	312	S	SS	3/4 x 3/16 dia x 1/8 flat
	Low Tone	2	312	S	SS	3/4 x 3/16 dia x 1/8 flat
	Tone Slip Ring	1	312	S	SS	3/4 x 3/16 dia x 1/8 flat
Commutator Type						
	High Tone	2	338	SA2522	Q	13/16 x 5/16 x 5/32
	Low Tone	3	339	SA2522	Q	13/16 x 5/16 x 5/16
	Tone Slip Ring	1	341	SA2522	Q	13/16 x 5/16 x 1/4
5134 — R-TYPE BUFFALO ENGINE (STARTER)		Give starter nameplate data, engine serial, and KS numbers.				
5135 — 400-AMP BUFFALO BA ENGINE WITHOUT RADIATOR (STARTER AND GEN)		Give starter or generator nameplate data, as required, and engine serial and KS numbers.				

TABLE A (Cont)

5137 5137-01 5137-02	MACHINE KS AND DESCRIPTION			NO. PER MACH	LATEST KS-5555, LIST NO. GRADE		SHAPE	BRUSH
	GROUNDED TELE- GRAPH AND REPEATER PLATE MACHINES							SIZE IN INCHES
FRAME	V	A						
BC-66	175	1.5	2	86	AY	Q	7/8 x 3/8 x 3/8	
BC-76	175	3	2	91	AY	Q	7/8 x 1/2 x 1/2	
BC-33	175	5	2	175	D2	C	1-1/8 x 1 x 3/8	
BD-43	175	10	2	64	D	C	1-1/4 x 1-1/4 x 3/8	
CD-55	175	15 or 20	4	187	R310	C	2 x 1-1/4 x 3/8	
CD-65	175	30	4	95	R310	C	1-7/8 x 3/4 x 7/16	
B-284	175	30	4	186	R310	C	1-1/4 x 3/4 x 3/8	
CD-73	175	40	4	187	R310	C	2 x 1-1/4 x 3/8	
CD-75	165*	50	4	187	R310	C	2 x 1-1/4 x 3/8	
CD-83	175	100	8	187	R310	C	2 x 1-1/4 x 3/8	
CD-83	165*	100	8	96	R310	C	2 x 1 x 1/2	
CD-93	165	150	8	139	R310	C	2 x 1-1/4 x 1/2	
CD-93	175	150	12	96	R310	C	2 x 1 x 1/2	
CD-115	175	300	16	71	SA45	C	2-1/2 x 1-1/4 x 3/4	
CD-1137	165*	300	16	184	T-563	C	2-1/4 x 1-1/2 x 3/8	
BD-33	320	3	2	175	D2	C	1-1/8 x 1 x 3/8	
BD-43	320	5	2	64	D	C	1-1/4 x 1-1/4 x 3/8	
CD-55	320	10	4	187	R310	C	2 x 1-1/4 x 3/8	
CD-65	320	15	4	95	R310	C	1-7/8 x 3/4 x 7/16	
CD-73	320	20	4	187	R310	C	2 x 1-1/4 x 3/8	
CD-75	320	30	4	187	R310	C	2 x 1-1/4 x 3/8	
CD-83	320	40 or 50	8	96	R310	C	2 x 1 x 1/2	

AC Motor (for gen BC66  
and BC76)

FRAME	HP						
5RSA65	0.5	4	185	BP-20	Q	0.82 x 3/8 x 1/4	
FRSA75	1	4	93	EG3 or SA35	Q	7/8 x 1/2 x 1/4	

DC Motor (230 volts for  
BC76 gen)

2 91 AY Q 7/8 x 1/2 x 1/2

Other DC and AC Motors

Give nameplate data.

\* Some generators rated 175 volts.

TABLE A (Cont)

MACHINE KS AND DESCRIPTION			NO. PER MACH	LATEST KS-5555, LIST NO.	GRADE	SHAPE	BRUSH SIZE IN INCHES
5137-03 — MOTOR-GENER- ATOR WITH V-TYPE BRUSH HOLDERS							
FRAME	V	A					
B-284	165	25	4	186	R310	C	1-1/4 x 3/4 x 3/8
CD-75	165	50	4	187	R310	C	2 x 1-1/4 x 3/8
CD-83	165	100	8	96	R310	C	2 x 1 x 1/2
CD-93	165	150	8	139	R310	C	2 x 1-1/4 x 1/2
CD-1137	165	300	16	184	T-563	C	2-1/4 x 1-1/2 x 3/8

## MOTORS

Give nameplate data.

WITH CONSTANT  
PRESSURE BRUSH  
HOLDERS

FRAME	V	A					
CD-1137	165	300	8	188	L352	C	2-7/8 x 1-1/2 x 3/4

5142 — 1.5KW WESTING-  
HOUSE ENGINE  
GENERATOR SET  
(GEN)

Give generator nameplate data, engine serial, and KS numbers.

5144 — 175VA INVERTED  
CONVERTER

Give generator nameplate data, and whether for ac or dc end.

## SECTION 171-110-802

TABLE A (Cont)

MACHINE KS AND DESCRIPTION	NO. PER MACH	LATEST		SHAPE	BRUSH SIZE IN INCHES
		KS-5555, LIST NO.	GRADE		
5145 — 200-AMP BUFFALO ENGINE SET WITH RADIATOR (STARTER AND GEN)					Give starter or generator nameplate data, as required, and engine serial and KS numbers.
5146 — 200-AMP BUFFALO ENGINE SET WITHOUT RADIATOR (STARTER AND GEN)					Give starter or generator nameplate data, as required, and engine serial and KS numbers.
5157 — 10A PRINTER DRIVE MOTOR	2	19	EG3860	Q	3/4 x 1/4 x 1/4
5159 — 44- TO 50-VOLT QD-18 RINGING MACHINE					
Commutator	2	**325	SA2522	S	27/32 x 19/64 dia x 1/4 flat
Collector Ring (20 cycles)	2	**326	SA2522	S	27/32 x 19/64 dia x 1/4 flat
Tone	1	**325	SA2522	S	27/32 x 19/64 dia x 1/4 flat
Tone Slip Ring	1	**325	SA2522	S	27/32 x 19/64 dia x 1/4 flat
5171 — SPEED-REDUCTION UNIT					Give motor nameplate data.
5187 } MOTOR-DRIVEN 5188 } TONE MACHINE					
Commutator					
24V	2	315	S	S	27/32 x 19/64 dia x 1/4 flat
38V	2	329	SA2522	S	27/32 x 19/64 dia x 1/4 flat
High Tone	2	338	SA2522	Q	13/16 x 5/16 x 5/32
Low Tone	2	339	SA2522	Q	13/16 x 5/16 x 5/16
Tone Slip Ring	1	341	SA2522	Q	13/16 x 5/16 x 1/4
5190 — PRINTING TLG MG					Give nameplate data.
5195 — 1/50-HP DC SHUNT MOTOR					
19-29V	2	21	G	Q	3/4 x 1/4 x 1/4
44-53V	2	21	G	Q	3/4 x 1/4 x 1/4
105-125V	2	21	G	Q	3/4 x 1/4 x 1/4
Speed Reg (ring type)	1	3	255	Q	5/8 x 1/4 x 1/4

\*\*Lists 325 and 326 are the same except for shaping. The list 326 collector ring brushes are mounted with flat sides at right angles to the shaft and are shaped accordingly. List 325 brushes are shaped for mounting with flat sides parallel to the shaft.

TABLE A (Cont)

MACHINE KS AND DESCRIPTION	NO. PER MACH	LATEST		SHAPE	BRUSH SIZE IN INCHES
		KS-5555, LIST NO.	GRADE		
5196 — 1/60-HP DC SHUNT MOTOR					
19-29V	2	21 <sup>b</sup>	G	Q	3/4 x 1/4 x 1/4
40-56V	2	21	G	Q	3/4 x 1/4 x 1/4
105-125V	2	21	G	Q	3/4 x 1/4 x 1/4
115-140V	2	21	G	Q	3/4 x 1/4 x 1/4
Speed Reg (center cont type)	1	3	255	Q	5/8 x 1/4 x 1/4
5222 — REPAIRED RINGING GENS AND 1- AND 2-MOTOR RINGING AND COIN CONTROL MG					Give nameplate data.
5224 — 1/10-HP DC PRECISION INTERRUPTER MOTOR					
DC Motor	2	2	9613	Q	7/8 x 7/16 x 1/4
Speed Reg (center cont type)	1	3	255	Q	5/8 x 1/4 x 1/4
5245 — ALTERNATORS AND EXCITERS FOR R AND ATT BUFFALO ENGINES					
Alternator					
50, 75, 100, and 150 KVA	4	61	H	N	1-3/8 x 3/4 x 1/2
Exciters					
EF2	4	122	B18	N	1-3/8 x 3/4 x 7/16
EF7-1/2 and EF10	8	122	B18	N	1-3/8 x 3/4 x 7/16
EF5	8	122	B18	N	1-3/8 x 3/4 x 7/16
EF5	8	127	SA3538	E	1-3/8 x 3/4 x 3/8
5291 — TELEPHONE OPERAT- ING ROOM FAN					Give nameplate data.
5293 — CENTRIFUGAL-TYPE AUTOMATIC DC VOLTAGE REGULATOR					
DC Motor	2	110	255	Q	5/8 x 1/4 x 1/4
Regulator	2	110	255	Q	5/8 x 1/4 x 1/4
5296 — BATTERY-DRIVEN EMERGENCY ALTERNATOR					
ALTERNATOR					
FRAME	KW	VOLTS			
AS	4	200 or 230	4	76	AY N 1-3/8 x 7/8 x 3/8
ATB7532	12	200 or 230	4	61	H N 1-3/8 x 3/4 x 1/2
ATB7541	24	200 or 230	4	61	H N 1-3/8 x 3/4 x 1/2
DC MOTOR					
FRAME	HP	VOLTS			
CD-75	7.5	40-50	8	77	CM6 C 2 x 1-1/4 x 3/4
CD-103	18	40-50	16	38	529 C 2-1/2 x 1-1/4 x 1
CD-113	36	40-50	24	40	529 N 2-1/2 x 1-1/4 x 1-1/8
EF2 Exciter			4	122	B18 N 1-3/8 x 3/4 x 7/16
TD-W Speed Reg			2	7	CM5 U 3/4 lg x 3/8 dia

TABLE A (Cont)

MACHINE KS AND DESCRIPTION	NO. PER MACH	LATEST KS-5555, LIST NO.	GRADE	SHAPE	BRUSH SIZE IN INCHES
<b>5313 — MOTOR-DRIVEN HOWLER INTER- RUPTER</b>					
Howler	4	338	SA2522	Q	13/16 × 5/16 × 5/32
Slip Ring	1	341	SA2522	Q	13/16 × 5/16 × 1/4
DC Motor					
24 Volts	2	315	S	S	27/32 × 19/64 dia × 1/4 flat
48 Volts	2	329	SA2522	S	27/32 × 19/24 dia × 1/4 flat
<b>5318 — RADIATOR-COOLED BUFFALO R ENGINE (STARTER)</b>					
					Give starter nameplate data and serial and KS numbers of engine.
<b>5319</b>					
5319-01	}	QD-15 RINGING MACHINE			
5319-02					
5319-04					
(Holtzer-Cabot)					
Commutator	2	316	SA2522	V	1 × 3/8 × 3/8
Collector Ring (20 cycles)	2	*326	SA2522	S	27/32 × 19/64 dia × 1/4 flat
Tone	1	*325	SA2522	S	27/32 × 19/64 dia × 1/4 flat
Tone Slip Ring	1	*325	SA2522	S	27/32 × 19/64 dia × 1/4 flat
<b>5319-03 — QD-15 RINGING MACHINE</b>					
Collector Rings (20 cycles)	2	334	G-451		3/4 × 0.185 × 0.304
Commutator (+)	1	335	G-38-G		5/8 × 0.618 × 0.311
Commutator (-)	1	336	G-38-G		5/8 × 0.618 × 0.311
Tone	1	340	SA2522	SS	3/4 × 3/16 dia × 1/8 flat
Tone Slip Ring	1	340	SA2522	SS	3/4 × 3/16 dia × 1/8 flat
<b>5319-04 — QD-15 RINGING MACHINE</b>					
(Electric Specialty)					
Commutator	2	504	EG11		1/2 × 7/16 × 1/4
Collector Ring (20 cycles)	2	505	EG11D		9/16 × 1/4 × 3/16
Tone	1	505	EG11D		9/16 × 1/4 × 3/16
Tone Slip Ring	1	505	EG11D		9/16 × 1/4 × 3/16
◆5319-04 Model					
CS-6075 Holtzer —					
Cabot L1, L2 and					
Model 2800 Commercial					
Electric Products Corp.					
L1, L2, L3, & L4					
Commutator	2	346	SA2522	Q	1-1/4 × 1/4 × 1/4
Collector Ring (20 Hz)	2	346	SA2522	Q	1-1/4 × 1/4 × 1/4
Tone Commutator	2	347	SA2522	Q	7/8 × 3/16 × 1/4

TABLE A (Cont)

MACHINE KS AND DESCRIPTION	NO. PER MACH	LATEST		SHAPE	BRUSH SIZE IN INCHES
		KS-3555, LIST NO.	GRADE		
5349 — MOTOR-DRIVEN FIELD RHEOSTAT (MOTOR)		Give motor nameplate data and serial and KS numbers of rheostat.			
5352 — QD-18 RINGING MACHINE					
Commutator	2	*325	SA2522	S	27/32 x 19/64 dia x 1/4 flat
Collector Ring (20 cycles)	2	*326	SA2522	S	27/32 x 19/64 dia x 1/4 flat
Tone	1	*325	SA2522	S	27/32 x 19/64 dia x 1/4 flat
Tone Slip Ring	1	*325	SA2522	S	27/32 x 19/64 dia x 1/4 flat
5362 — DC MOTOR-DRIVEN 40W 135-CYCLE MG					
DC Motor	2	2	9613	Q	7/8 x 7/16 x 1/4
Speed Reg (center cont type)	1	3	255	Q	5/8 x 1/4 x 1/4
5366 — MULTIFREQUENCY MG					
DC Motor Left (-)	1	102	9613	QA	13/16 x 7/16 x 1/4
DC Motor Right (+)	1	103	9613	QA	13/16 x 7/16 x 1/4
Speed Reg Alarm Collector	1	97	G	Q	17/32 x 1/4 x 1/4
5376 — AC CENTRIFUGAL- TYPE VOLTAGE REGULATOR					
DC Motor	2	110	255	Q	5/8 x 1/4 x 1/4
Speed Reg (center cont type)	1	110	255	Q	5/8 x 1/4 x 1/4
5380 — 0.27-AMP, 105- TO 145- VOLT DC, MG SET		For "Latest," refer to Teletype Corporation information.			
5385 — DISCHARGE LEAD RHEOSTATS (MOTOR)		Give motor nameplate data, rheostat serial, and KS numbers.			
5388 — 1/8-HP DC TEST FRAME MOTOR					
DC Motor	2	2	9613	Q	7/8 x 7/16 x 1/4
Speed Reg (ring type)	1	3	255	Q	5/8 x 1/4 x 1/4

\* Lists 325 and 326 are the same except for shaping. The list 326 collector ring brushes are mounted with flat sides at right angles to the shaft and are shaped accordingly. List 325 brushes are shaped for mounting with flat sides parallel to the shaft.

TABLE A (Cont)

MACHINE KS AND DESCRIPTION	NO. PER MACH	LATEST		BRUSH			
		KS-5555, LIST NO.	GRADE	SHAPE	SIZE IN INCHES		
5396 COMMERCIAL-TYPE							
5397 RINGING AND COIN CONTROL MG							
Generators							
Frame BD-216							
Collector Ring (20 cycles)	2	80	G	C	1-1/4 × 1/2 × 3/8		
Commutator	2	81	G	C	1-1/8 × 3/4 × 3/8		
Frame DB-226							
Collector Ring (20 cycles)	2	82	G	C	1-1/8 × 1/2 × 3/8		
Commutator	2	83	G	C	1-1/8 × 1 × 3/8		
Frame DB-234							
Collector Ring (20 cycles)	2	82	G	C	1-1/8 × 1/2 × 3/8		
Commutator	2	81	G	C	1-1/8 × 3/4 × 3/8		
Frame BY-107, BY-108, BY-109, and BY-144							
Collector Ring (20 cycles)	2	99	G	C	1-1/4 × 1/2 × 3/8		
Commutator	2	177	R310	C	1-1/4 × 3/4 × 3/8		
DC MOTORS (FOR FRAME SD GEN)							
FRAME	HP	VOLTS					
CD-65	0.75	18-28	4	4	CM5	C	1-7/8 × 3/4 × 7/16
CD-65	1.2	18-28	4	4	CM5	C	1-7/8 × 3/4 × 7/16
CD-65	1.8	36-55	4	5	CM9	C	1-7/8 × 3/4 × 7/16
CD-65	0.75	36-55	4	6	CM9	C	1-7/8 × 3/4 × 3/8
CD-55	1.2	36-55	4	6	CM9	C	1-7/8 × 3/4 × 3/8
DC MOTORS (FOR FRAME BY GEN)							
FRAME	HP	VOLTS					
B-254	0.75	40-50	4	100	CM9	C	1-1/4 × 1-1/4 × 3/8
B-254	1.2	40-50	4	100	CM9	C	1-1/4 × 1-1/4 × 3/8
B-284	1.8	40-50	4	100	CM9	C	1-1/4 × 1-1/4 × 3/8
B-284	0.75	18-28	4	109	CM5	C	1-1/4 × 1-1/4 × 3/8
Type TD-W Speed Reg	2	7	CM5	U			3/4 lg × 3/8 dia
For mercury interrupters, see end of this list of machines.							
5402 — 1/8-HP MOTOR FOR DRIVING BURNISHING TOOLS							
DC Motor	2	176	AY	Q			0.69 × 1/4 × 1/4
5404 — 4KW AUTOMATICALLY CONTROLLED GAS ENGINE-DRIVEN ALTERNATOR SET (STARTER AND ALTERNATOR)							
Give starter or alternator nameplate data, as required, and engine serial and KS numbers.							

TABLE A (Cont)

MACHINE KS AND DESCRIPTION	NO. PER MACH	LATEST		BRUSH		SIZE IN INCHES
		KS-5555, LIST NO.	GRADE	SHAPE		
5407 — 1/16-HP 60-CYCLE AC/DC DUPLEX MOTOR	2	16	401	L		17/32 × 7/16 × 1/4
5419 — SMALL DC MOTOR- DRIVEN COMMERCIAL- TYPE CHARGING SETS	Give motor and generator nameplate data.					
5428 — MOTOR UNIT FOR COMMUTATOR RE- SURFACING DEVICE	Give motor nameplate data.					
*5430 — 1/2-AMP RINGING MACHINE FOR PANEL MOUNTING (see Note 1)						
DC Motor	2	113	G	Q		7/8 × 3/8 × 3/8
Collector Ring (20 cycles)						
Without Pulsating (see Note 2)	2	88	258	Q		7/8 × 3/8 × 3/8
With Pulsating	2	89	258	Q		7/8 × 3/8 × 3/8
Pulsating	1	90	258	Q		3/4 × 3/8 × 3/8
Speed Reg (center cont type)	1	3	255	Q		5/8 × 1/4 × 1/4
5442 — COMMERCIAL-TYPE SETS FOR USE WITH CENTRIFUGAL VOLT- AGE REGULATOR						
<b>GENERATOR (140 VOLTS)</b>						
FRAME		AMPS				
BC-66	2	1.5	86	AY	Q	7/8 × 3/8 × 3/8
BC-76	2	3	91	AY	Q	7/8 × 1/2 × 1/2
BD-33	2	5	175	D2	C	1-1/8 × 1 × 3/8
BD-43	2	10	64	D	C	1-1/4 × 1-1/4 × 3/8
<b>AC MOTOR ONE-PHASE 110V OR 220V</b>						
FRAME		HP				
RSA-65	4	0.5	185	BP-20	Q	0.82 × 3/8 × 1/4
RSA-75	4	1	93	EF3 or SA35	Q	7/8 × 1/2 × 1/4
<b>GENERATOR (44-54V)</b>						
FRAME		AMPS				
B-224	2	18.5	20	HRG	C	1-1/4 × 1 × 1/2
CD-75	12	200	41	CM6	Y	1-7/8 × 3/4 × 5/8
5445 — MOTOR-DRIVEN 15- INCH PLATE DIS- CHARGE LEAD RHEOSTAT (MOTOR)	Give motor nameplate data, rheostat serial, and KS numbers.					

*Note 1:* The KS-5430 L1 to L4 ringing machines and all KS-5430-01 ringing machines do not have pulsating equipment. All ac sets and the KS-5430-01 L14 and L15 ringing machines have no speed regulators.

*Note 2:* ♦ When the motor brushes in the KS-5430-01 L14 ringing machine must be replaced, the replacement brushes should be ordered from General Electric Company catalog No. 625A619ACG2. The General Electric catalog should be ordered from the Western Electric Company. Before installing the motor brushes in the KS-5430-01 L14 ringing machine, contact Purchased Products Engineering, Western Electric Company, for the special procedures required to install the motor brushes. ♦

TABLE A (Cont)

MACHINE KS AND DESCRIPTION	NO. PER MACH	LATEST KS-5555, LIST NO.	GRADE	SHAPE	BRUSH SIZE IN INCHES
5448 — 500W 50V MG AC Motor (comm type RSA-75)	4	93	EG3 or SA35	Q	7/8 x 1/2 x 1/4
DC Generator (BC-76)	2	91	AY	Q	7/8 x 1/2 x 1/2
5449 — BA-TYPE BUFFALO ENGINE FOR DRIVING ALTERNATORS (STARTER)					Give starter nameplate data, engine serial, and KS numbers.
5450 — 10KW ALTERNATOR AND EXCITER FOR BA ENGINE					
Alternator Frames, AQI AND ATI	4	61	H	N	1-3/8 x 3/4 x 1/2
Exciter EF2	4	122	B18	N	1-3/8 x 3/4 x 7/16
5452 — ROTARY-TYPE MOTOR-DRIVEN EMERGENCY CELL SWITCHES (MOTOR)					Give motor nameplate data emergency cell switch serial and KS numbers.
5458 — MOTOR-DRIVEN INTERRUPTER	2	329	SA2522	S	27/32 x 19/64 dia x 1/4 flat
5467 — (SEE 5508) ALTER- NATORS AND EXCITERS FOR KS-5508 BUFFALO ENGINES					
GECo Alternators 10, 25, 50, and 70 KW Models 2G88, 3G607, 3G615, 4G366, and 5G175	4	61	H	N	1-3/8 x 3/4 x 1/2
All Other GECo Models	4	108	D	N	1-3/8 x 3/4 x 1/2
GECo Exciters EF2 and EF3	4	122	B18	N	1-3/8 x 3/4 x 7/16
Machines of Other Than GE Manufacture					Give nameplate data.
5469 — MG FOR 19-TYPE, AC TELETYPEWRITER					For latest brushes refer to the Teletype Corporation bulletin.
5474 — BOOTH FANS					Give nameplate data.
5481 — INVERTED CON- VERTERS					Give nameplate data and state whether for ac or dc end.

TABLE A (Cont)

MACHINE KS AND DESCRIPTION	NO. PER MACH	LATEST KS-5555, LIST NO.	GRADE	SHAPE	BRUSH	
					SIZE IN INCHES	
5485 — INVERTED CON- VERTERS						Give nameplate data and state whether for ac or dc end.
5492 — INVERTED CON- VERTERS						Give nameplate data and state whether for ac or dc end.
5500 — DIVERTER POLE CHARGING SETS (See 5500-01 below)						

GENERATORS							
FRAME	V	A					
JD	25	5	2	382	EP-108	Q	7/8 x 3/8 x 3/8
21-D	25	10	2	383	EP-108	N	1 x 3/4 x 1/2
31-D	25	25	4	384	EP-108	N	1-1/2 x 1 x 1/2
35-D	25	50	8	385	EP-108	W	1-3/8 x 1 x 3/8
45-D	25	100	8	386	EP-108	W	1-3/8 x 1-1/2 x 1/2
45-D	25	200	12	386	EP-108	W	1-3/8 x 1-1/2 x 1/2
21-D	50	5	2	383	EP-108	N	1 x 3/4 x 1/2
21-D	50	10	2	383	EP-108	N	1 x 3/4 x 1/2
31-D	50	25	4	384	EP-108	N	1-1/2 x 1 x 1/2
35-D	50	50	8	385	EP-108	W	1-3/8 x 1 x 3/8
45-D	50	100	8	386	EP-108	W	1-3/8 x 1-1/2 x 1/2
50-D	50	200	8	387	EP-108	W	2-1/4 x 1-3/4 x 1/2
DC MOTORS							
FRAME	V						
21-D	115		2	388	EP-204	N	1 x 3/4 x 1/2
21-D	230		2	388	EP-204	N	1 x 3/4 x 1/2
31-D	230		4	389	EP-204	N	1-1/2 x 1 x 1/2
35-D	230		4	390	EP-204	W	1-3/8 x 1 x 3/8

5500-01 — DIVERTER-POLE  
CHARGING SETS

GENERATORS							
FRAME	V	A					
JD	25	5	2	391	EP-108	Q	1 x 3/4 x 3/8
21-D	25	10	2	385	EP-108	W	1-3/8 x 1 x 3/8
31-D	25	25	4	385	EP-108	W	1-3/8 x 1 x 3/8
35-D	25	50	8	385	EP-108	W	1-3/8 x 1 x 3/8
45-D	25	100	8	386	EP-108	W	1-3/8 x 1-1/2 x 1/2
45-D	25	200	12	386	EP-108	W	1-3/8 x 1-1/2 x 1/2
21-D	50	5	2	385	EP-108	W	1-3/8 x 1 x 3/8
21-D	50	10	2	385	EP-108	W	1-3/8 x 1 x 3/8
31-D	50	25	4	385	EP-108	W	1-3/8 x 1 x 3/8
35-D	50	50	8	385	EP-108	W	1-3/8 x 1 x 3/8
45-D	50	100	8	386	EP-108	W	1-3/8 x 1-1/2 x 1/2
50-D	50	200	12	386	EP-108	W	1-3/8 x 1-1/2 x 1/2
DC MOTORS							
FRAME	V						
21-D	115		2	390	EP-204	W	1-3/8 x 1 x 3/8
21-D	230		2	390	EP-204	W	1-3/8 x 1 x 3/8
31-D	230		4	390	EP-204	W	1-3/8 x 1 x 3/8
35-D	230		4	390	EP-204	W	1-3/8 x 1 x 3/8

TABLE A (Cont)

MACHINE KS AND DESCRIPTION	NO. PER MACH	LATEST KS-5555, LIST NO.	GRADE	SHAPE	BRUSH SIZE IN INCHES	
5501 — MOTOR-DRIVEN RHEOSTAT (WARD- LEONARD)						Give nameplate data.
5502 — KNIFE-BLADE-TYPE MOTOR-DRIVEN EMERGENCY CELL SWITCHES (ANDER- SON) (MOTOR)						Give nameplate data.
5504 — 15-WATT RINGING MACHINE (PIONEER GENERATOR)						Give nameplate data.
5506 — 52-VOLT 0.8-AMPERE MOTOR-GENERATOR	2	179	G	Q	0.82 x 3/8 x 3/8	
5508 — (SEE 5467) BUFFALO ENGINES (STARTERS)						Give starter nameplate data, engine serial, and KS number.
5510 — 25-WATT QD RINGING MACHINE						
DC Motor Commutator	2	316	SA2522	V	1 x 3/8 x 3/8	
Collector Ring (20 cycles)	2	332	SA2522	S	27/32 x 19/64 dia x 1/4 flat	
High Tone	2	338	SA2522	Q	13/16 x 5/16 x 5/32	
Low Tone	2	339	SA2522	Q	13/16 x 5/16 x 5/16	
Tone Slip Ring	1	341	SA2522	Q	13/16 x 5/16 x 1/4	
Regulator	1	341	SA2522	Q	13/16 x 5/16 x 1/4	
5513 — RECEIVER MOTOR						Give nameplate data.
5514 — TRANSMITTER MOTOR						Give nameplate data.
5518 — PORTABLE ENGINE ALTERNATOR SETS						
GECo						
Alternators 75KW	4	108	D	N	1-3/8 x 3/4 x 1/2	
Exciters EF3	4	122	B18	N	1-3/8 x 3/4 x 7/16	
Starter (for Buffalo engine)						Give starter nameplate data, serial, KS, and list number of engine.
Star Electric Alternator and Exciter						Give alternator or exciter nameplate data and KS number.
Starter (for Buda engine)						Give starter nameplate data.
5525 } ENGINE-GENERATORS 5525-01 } AND ALTERNATOR SETS						(See 5539, 5549, 5550, and 5575)
5530 — 1.5KW ENGINE- GENERATOR SET						Give nameplate data.

TABLE A (Cont)

MACHINE KS AND DESCRIPTION	NO. PER MACH	LATEST		SHAPE	BRUSH
		KS-5555, LIST NO.	GRADE		SIZE IN INCHES
5532—REPAIRED CENTRIFUGAL-TYPE VOLTAGE REGULATORS					
DC Motor	2	110	255	Q	5/8 x 1/4 x 1/4
Regulator	2	110	255	Q	5/8 x 1/4 x 1/4
5539—ENG-DRIVEN GEN	Give nameplate data.				
5540—FLOAT MOTOR	2	110	255	Q	5/8 x 1/4 x 1/4
5541—BOOTH FANS	Give nameplate data.				
5542—6KW ENG-GEN SET	Give nameplate data.				
5546—CODE RING MACH TYPE CWD or CBD (Old Design)					
Motor Commutator	2	316	SA2522	V	1 x 3/8 x 3/8
Collector Ring (20 cycles)	2	332	SA2522	S	27/32 x 19/64 dia x 1/4 flat
High Tone	1	344*	SA2522	SS	3/4 x 3/16 dia x 1/8 flat
Low Tone	2	344*	SA2522	SS	3/4 x 3/16 dia x 1/8 flat
Tone Slip Ring	1	344*	SA2522	SS	3/4 x 3/16 dia x 1/8 flat
◆ New Holtzer—Cabot Design Type MG-262					
Motor Commutator	2	346	SA2522	Q	1-1/4 x 1/4 x 1/4
Collector Ring (20 Hz)	2	346	SA2522	Q	1-1/4 x 1/4 x 1/4
High Tone	2	345	SA2522	SS	5/8 x 3/16 x 1/8
Low Tone	2	345	SA2522	SS	5/8 x 3/16 x 1/8
Tone Slip Ring	1	345	SA2522	SS	5/8 x 3/16 x 1/8

These brushes are obtainable through the Commercial Electric Products Corporation. ◆

5547—DIVERter POLE  
MG SETS

FRAME	GENERATOR							
	V	A						
31-D	55	30	4	385	EP-108	W	1-3/8 x 1 x 3/8	
35-D	55	60	8	385	EP-108	W	1-3/8 x 1 x 3/8	
45-D	55	120	8	386	EP-108	W	1-3/8 x 1-1/2 x 1/2	

5549—ENGINE (STARTER) Give starter and engine nameplate data.

5550 GEN, ALT, AND  
5550-01 EXCITERS

FRAME	GECO GENERATORS							
	V	A						
CD-85	22-53	200	12	121	R310	C	2 x 1 x 3/4	
GECO								
Alternators			4	181	D	E	1-3/8 x 3/4 x 1/2	
Exciters			4	122	B18	N	1-3/8 x 3/4 x 7/16	
Generators and Exciters of Other Than GE Manufacture	Give the associated nameplate data and also the serial and KS and list numbers of engine.							

TABLE A (Cont)

MACHINE KS AND DESCRIPTION	NO. PER MACH	LATEST KS-5555, LIST NO.	GRADE	SHAPE	BRUSH SIZE IN INCHES
<p>◆ *The list 344 brush requires the use of Brush Screw Cap A-1531 (CEPC Part #) which has a 0.100 to 0.105 inch diameter projection. The List 340 brush if used requires the use of Brush Screw Cap A-1364 (CEPC Part #) which has a 7/64 inch diameter projection. The two brush screw caps cannot be used interchangeably. Also, a teflon tube comes as part of List 344 to be used in the brush holder.◆</p>					
<p>5565 — ENGINE-DRIVEN, 10 KW ALTERNATOR, EXCITER, &amp; STARTER</p>					<p>Give nameplate data and state whether brushes are for alternator, exciter, or starter.</p>

TABLE A (Cont)

MACHINE KS AND DESCRIPTION	NO. PER MACH	LATEST		SHAPE	BRUSH	
		KS-5555, LIST NO.	GRADE		SIZE IN INCHES	
5574 } 5574-01 } GENERAL MOTORS 10, 30, 40, AND 60KW PORTABLE AND STATIONARY DIE- SEL ALTERNATOR, EXCITER, AND STARTER						Give nameplate data and state whether brushes are for alternator, exciter, or starter.
5575 — ENGINE-DRIVEN DC GENERATOR						
(Electric Products)	4	392	EP-204	W	2-1/4 x 1-3/4 x 1/2	
(Hertner)	4	409	SA45		1-3/4 x 1-1/4 x 3/8	
5580 — VOLTAGE REGULA- TOR — ELECTRONIC- TYPE GVD CEMF MOTOR	2	130	ACJ	S	7/8 x 5/8 x 3/8	
5583 — ENGINE-DRIVEN 1KW ALTERNATOR AND EXCITER						Give nameplate data and state whether brushes are for alternator or exciter.
5591 — ENGINE-DRIVEN 7.5KW ALTERNATOR AND EXCITER						Give nameplate data and state whether brushes are for alternator or exciter.
5592 — VENTILATION EQUIP- MENT FAN AND SHUTTER MOTOR						Give nameplate data and state whether brushes are for fan or shutter motor.
5602 — ENGINE-DRIVEN 4KW ALTERNATOR AND EXCITER						Give nameplate data and state whether brushes are for alternator or exciter.
5613 — ENGINE-DRIVEN 4KW ALTERNATOR AND EXCITER						Give nameplate data and state whether brushes are for alternator or exciter.
5630 — KEROSENE ENGINE- DRIVEN 1.5KW GENER- ATOR SET						Give nameplate data.
5636 — ENGINE-DRIVEN ALTERNATOR AND EXCITER						Give nameplate data and state whether brushes are for alternator or exciter.
5652 — DYNAMOTOR						Give nameplate data and state whether for low- or high-voltage end.

TABLE A (Cont)

MACHINE KS AND DESCRIPTION	NO. PER MACH	LATEST KS-5555, LIST NO.	GRADE	SHAPE	BRUSH SIZE IN INCHES
5654 L1					
5654-01 L1 and L2					
Alternator	4	141	AY	N	1-3/8 x 7/8 x 3/8
DC Motor	4	67	377	C	1-1/4 x 3/4 x 3/8
Exciter	2	142	BP-20	QA	1 x 1/2 x 1/2
5654 L2					
5654-01 L3, L4, and L6					
Alternator	4	76	AY	N	1-3/8 x 7/8 x 3/8
DC Motor	4	143	377	C	1-1/4 x 1-1/4 x 3/8
Exciter	2	142	BP-20	QA	1 x 1/2 x 1/2
5654-01 L5					
Alternator	4	141	AY	N	1-3/8 x 7/8 x 3/8
DC Motor	4	94	377	C	2 x 1-1/4 x 3/8
Exciter	4	144	SA45	C	1-1/4 x 5/8 x 5/16
5659 — CODE RINGING MACHINE					
Motor Commutator	2	316	SA2522	V	1 x 3/8 x 3/8
Collector Ring (20 cycles)	2	332	SA2522	S	27/32 x 19/64 dia x 1/4 flat
High Tone	1	340	SA2522	SS	3/4 x 3/16 dia x 1/8 flat
Low Tone	2	340	SA2522	SS	3/4 x 3/16 dia x 1/8 flat
Tone Slip Ring	1	340	SA2522	SS	3/4 x 3/16 dia x 1/8 flat
5664 — ENGINE-DRIVEN 15KW ALTERNATOR AND EXCITER					Give nameplate data and state whether brushes are for alternator or exciter.
5665 — DIESEL ENGINE- DRIVEN 300KW ALTERNATOR AND EXCITER					Give nameplate data and state whether brushes are for alternator or exciter.
5666 } 5666-01 } ENGINE-DRIVEN 10KW ALTERNATOR AND EXCITER					Give nameplate data and state whether brushes are for alternator or exciter.
5667 } 5667-01 } ENGINE-DRIVEN ALTERNATOR AND EXCITER					Give nameplate data and state whether brushes are for alternator or exciter.

TABLE A (Cont)

MACHINE KS AND DESCRIPTION		NO. PER MACH	LATEST KS-5555, LIST NO.	GRADE	SHAPE	BRUSH SIZE IN INCHES	
5668 } 5668-01 }	MOTOR-GENERATOR SETS						
(Electric Products)		Give nameplate data.					
(HERTNER) GENERATOR							
KS-5668 LIST	KS-5668-01 LIST	V	A				
1	1	33	100	4	401	ME or 559	1-3/4 x 1-1/4 x 1/2
2	2	33	200	8	401	ME or 559	1-3/4 x 1-1/4 x 1/2
3		33	400	12	402	ME or 559	1-3/4 x 1-1/2 x 1/2
	3	33	400	16	401	ME or 559	1-3/4 x 1-1/4 x 1/2
4	4	33	600	16	403	673	2-1/4 x 1-1/2 x 5/8
5		33	800	20	408	430	2-1/4 x 1-1/2 x 5/8
	5	33	800	24	408	430	2-1/4 x 1-1/2 x 5/8
6	8	65	100	4	410	E43	1-3/4 x 1-1/4 x 1/2
7	9	65	200	8	410	E43	1-3/4 x 1-1/4 x 1/2
8		65	400	12	404	**ME or 559	2-1/4 x 1-1/2 x 1/2
	10	65	400	12	412	**8200	2-1/4 x 1-1/2 x 1/2
9		65	500	12	405	**ME or 559	2-1/4 x 1-1/2 x 5/8
	11	65	500	12	411	**8200	2-1/4 x 1-1/2 x 5/8
10		65	750	20	406	*4029	2-1/4 x 1-1/2 x 5/8
	12	65	750	20	411	*8200	2-1/4 x 1-1/2 x 5/8
	14	33	400	12	402	ME or 559	1-3/4 x 1-1/2 x 1/2
	15	33	600	16	403	673	2-1/4 x 1-1/2 x 5/8
	16	33	800	24	408	430	2-1/4 x 1-1/2 x 5/8

\*Brushes for KS-5668 L10 and KS-5668-01 L12 motor-generators with serial numbers #62918 and below should be ordered by giving full nameplate data including serial number of the generator.

\*\*For KS-5668-01 L10 and L11 machines manufactured before 1-1-55 and KS-5668 L8 and L9 machines, use brush grade ME or 559. If trouble occurs on these machines, use grade 8200 as listed above.

TABLE A (Cont)

MACHINE KS AND DESCRIPTION	NO. PER MACH	LATEST KS-5555, LIST NO.	GRADE	SHAPE	BRUSH	
					SIZE IN INCHES	
5668-02 — MOTOR-GENERATOR SETS						
LIST						
9	63	200	8	413	118A	2 x 1-1/4 x 3/8
10	63	400	12	414	8200	2 x 1-1/2 x 1/2
11	63	500	12	415	8200	2 x 1-1/2 x 5/8
12	63	750	20	416	118A	2-1/4 x 1-1/2 x 5/8
19	63	400	12	414	8200	2 x 1-1/2 x 1/2
20	63	500	12	415	8200	2 x 1-1/2 x 5/8
21	63	750	20	416	118A	2-1/4 x 1-1/2 x 5/8
5671 — INVERTED CONVERTER						
Commutator	12	145	687	C		2 x 1 x 3/4
Collector	8	146	D	Y		2-1/4 x 1-1/4 x 5/8
5713 — MOTOR-DRIVEN RHEOSTAT (WARD-LEONARD)						
Give nameplate data.						
5715 — MOTOR-ALTERNATOR SETS						
Give nameplate data and state whether brushes are for alternator or motor.						
5717 — INVERTED CONVERTERS						
Give nameplate data and state whether brushes are for ac or dc end.						
5726 — INVERTER						
(Serial No. up to and including K6922)						
DC Commutator	2	503	EG11			1-3/16 x 3/4 x 5/16
AC Slip Rings	4	501	EG11D			1-1/8 x 5/8 x 5/16
Speed Regulator	3	501	EG11D			1-1/8 x 5/8 x 5/16
(Serial No. K7197 and higher)						
DC Commutator	2	506	EG72			1-3/16 x 3/4 x 5/16
AC Slip Rings	4	501	EG11D			1-1/8 x 5/8 x 5/16
Speed Regulator	3	508	EG11D			1/2 x 7/16 x 1/4
5748 — 1/16-HP DC MOTOR						
Model 5BC42AB1683	2	185	BP-20	Q		0.82 x 3/8 x 1/4
Model 5BC42AB1730	2	185	BP-20	Q		0.82 x 3/8 x 1/4
Model 5BC42AB1730A	2	150	BP-20	Q		53/64 x 3/8 x 1/4
5750 — ENGINE-ALTERNATOR						
Give nameplate data and state whether brushes are for alternator, exciter, or starter.						

TABLE A (Cont)

MACHINE KS AND DESCRIPTION	NO. PER MACH	LATEST		SHAPE	BRUSH
		KS-5555, LIST NO.	GRADE		SIZE IN INCHES
<b>7491 — COMPRESSOR SET</b>					
GE Motor					
Model 5SCR204C73	2	*180	G	N	1-3/16 x 1/2 x 3/8
Model 5B204A77	2	67	377	C	1-1/4 x 3/4 x 3/8
<b>7507 — VACUUM CLEANERS</b>					
					Give nameplate data and state whether mica is undercut or flush.
<b>VACUUM CLEANERS SIMILAR TO KS-7507 UNDER NAME "PROTOS" OR "MORRILL AND MORRILL," ETC.</b>					
					Give nameplate data.
<b>8038 — PORTABLE EXHAUSTER</b>					
GE Motor					
Model 5BC44AB833	2	185	BP-20	Q	0.82 x 3/8 x 1/4
<b>15511 — INVERTER</b>					
					Give nameplate data and state whether brushes are for ac or dc end.
<b>15520 — MOTOR-DRIVEN ALTERNATOR</b>					
List 1					
Alternator	4	152	T-869		1-7/8 x 1 x 1/2
DC Motor	8	152	2345		2 x 1 x 1/2
Exciter	4	153	L352		1-1/4 x 3/4 x 3/8
List 3					
Alternator	2	151	T-869		1-7/8 x 1 x 1/2
DC Motor	12	155	2345		2 x 1 x 5/8
Exciter	4	153	L352		1-1/4 x 3/4 x 3/8
<b>15521 — ENGINE-ALTERNATOR</b>					
					Give nameplate data and state whether brushes are for alternator or exciter.

\*One list 180 covers the two brushes which are connected by a common pigtail.

TABLE A (Cont)

MACHINE KS AND DESCRIPTION	NO. PER MACH	LATEST KS-5555, LIST NO.	GRADE	SHAPE	BRUSH SIZE IN INCHES
<b>15532 — RINGING MACHINES</b>					
(Holtzer-Cabot)					
DC Commutator	2	342	SA2522	V	1 x 3/8 x 3/8
AC Slip Ring	2	329	SA2522	S	27/32 x 19/64 dia x 1/4 flat
(Electric Specialty)					
(Serial numbers in the BO51, Z23, and Z35 series)					
AC Machine					
AC Alternator	2	501	EG11D		1-1/8 x 5/8 x 5/16
DC Machine					
AC Alternator	2	502	EG11D		11/16 x 1/4 x 1/4
DC Motor	2	503	EG11		1-3/16 x 3/4 x 5/16
(Serial numbers in the Z47 and Z60 series and numbers in the K7002 through K8545 series)					
AC Machine					
AC Alternator	2	502	EG11D		11/16 x 1/4 x 1/4
DC Machine					
AC Alternator	2	502	EG11D		11/16 x 1/4 x 1/4
DC Motor	2	504	EG11		1/2 x 7/16 x 1/4
(Serial numbers in the K9089 series and higher)					
AC Machine					
AC Alternator	2	509	EG11D		9/16 x 1/4 x 1/4
DC Machine					
AC Alternator	2	507	EG11		11/16 x 1/4 x 1/4
DC Motor	2	504	EG11		1/2 x 7/16 x 1/4
<b>15547 — MOTOR-DRIVEN INTERRUPTER</b>	4	340	SA2522	SS	3/4 x 3/16 dia x 1/8 flat
<b>15571 — MOTOR-DRIVEN RHEOSTAT (WARD- LEONARD)</b>	Give nameplate data.				
<b>15610 — SWITCH PANELS (ANDERSON) (MOTOR)</b>	Give nameplate data.				

TABLE A (Cont)

MACHINE KS AND DESCRIPTION	NO. PER MACH	LATEST KS-5555, LIST NO.	GRADE	SHAPE	BRUSH
					SIZE IN INCHES
<b>15622 — ENGINE-ALTER- NATOR</b>					Give nameplate data and state whether brushes are for alter- nator or exciter.
<b>15624 — SWITCH PANELS (ANDERSON) (MOTOR)</b>					Give nameplate data.
<b>15626 — MOTOR-DRIVEN ALTERNATOR</b>					Give nameplate data and state whether brushes are for alter- nator, exciter, or dc motor.
<b>15632 — DYNAMOTOR</b>					Give nameplate data and state whether brushes are for low- or high-voltage end.
<b>15650 — PORTABLE ENGINE- ALTERNATOR</b>					Give nameplate data and state whether brushes are for alter- nator or exciter.
<b>15688 — PORTABLE ENGINE- ALTERNATOR</b>					Give nameplate data and state whether brushes are for alter- nator or exciter.
<b>15700 — ENGINE-ALTERNATOR</b>					Give nameplate data and state whether brushes are for alter- nator or exciter.
<b>15717 — ENGINE-ALTERNATOR</b>					Give nameplate data and state whether brushes are for alter- nator or exciter.
<b>15743 — MOTOR-DRIVEN RHEOSTAT (WARD- LEONARD)</b>					Give nameplate data.
<b>15777 — ENGINE-ALTERNATOR</b>					Give nameplate data and state whether brushes are for alter- nator or exciter.
<b>◆ 5804 — RINGING MACHINE</b>					
Holtzer-Cabot L7 DC Commutator	2	343	SA2522		7/8 x 5/16 x 1/4
Holtzer-Cabot L3 Commercial Electric L3, L5, DC Commutator	2	346	SA2522	Q	1-1/4 x 1/4 x 1/4
Electric Specialty L1, L2, L3 (See Note) DC Commutator	2	507	EG11		11/16 x 1/4 x 1/4
General Electric L3 DC Commutator	2	200	PH	QB	59/64 x 1/4 x 1/4

*Note:* Electric Specialty, Electronic Systems Specialty and Radiation International are all past names of the Tech Systems Corporation. ◆

TABLE A (Cont)

MACHINE KS AND DESCRIPTION	NO. PER MACH	LATEST KS-5555, LIST NO.	GRADE	SHAPE	BRUSH
					SIZE IN INCHES
<b>15816 — RINGING MACHINE</b>					
List 1					
Commutator	2	164	R420	C	1-1/4 x 3/4 x 3/8
Slip Ring	2	165	<del>K-816</del>	S	1-1/4 x 3/8 x 1/4
List 2					
Commutator	2	164	R420	C	1-1/4 x 3/4 x 3/8
Slip Ring	2	165	<del>K-816</del>	S	1-1/4 x 3/8 x 1/4
DC Motor	2	166	B253	C	1-1/4 x 1 x 3/8
<b>15823 — MOTOR-DRIVEN ALTERNATOR</b>					
DC MOTOR	4	*511	EG11		1-5/8 x 1-1/4 x 1/2
<b>15834 — MOTOR-GENERATOR</b>					
LIST					
3	4	417	400		2 x 1-1/2 x 3/8
4	4	418	400		2 x 1-1/2 x 1/2
5	8	419	400		2-1/4 x 1-1/2 x 1/2
6	4	417	400		2 x 1-1/2 x 3/8
7	4	418	400		2 x 1-1/2 x 1/2
8	8	419	400		2-1/4 x 1-1/2 x 1/2
<b>15839 — MOTOR-GENERATOR</b>					
LIST	V	A			
3	33	400	12	194	**L352 C 2 x 1-1/4 x 5/8
4	33	600	12	195A	**L352 C 2-1/4 x 1-1/2 x 3/4
5	33	800	16	195A	**L352 C 2-1/4 x 1-1/2 x 3/4
6	33	1000	20	195A	**L352 C 2-1/4 x 1-1/2 x 3/4
9	63	200	8	193	**L352 C 2 x 1-1/4 x 1/2
10	63	400	12	199	**L352 C 2 x 1-1/4 x 5/8
11	63	500	12	195A	**L352 C 2-1/4 x 1-1/2 x 3/4
12	63	750	16	195A	**L352 C 2-1/4 x 1-1/2 x 3/4
14	33	400	12	194	**L352 C 2 x 1-1/4 x 5/8
15	33	600	12	195A	**L352 C 2-1/4 x 1-1/2 x 3/4
16	33	800	16	195A	**L352 C 2-1/4 x 1-1/2 x 3/4
17	33	1000	20	195A	**L352 C 2-1/4 x 1-1/2 x 3/4
19	63	400	12	199	**L352 C 2 x 1-1/4 x 5/8
20	63	500	12	195A	**L352 C 2-1/4 x 1-1/2 x 3/4
21	63	750	16	195A	**L352 C 2-1/4 x 1-1/2 x 3/4

\*List 511 is furnished with a metal clip containing an adjusting screw. The assembled brush, clip, and screw is designed to be used in a solenoid operated brush lifter.

\*\*Where dusting of the brushes has been experienced, it is recommended that brush grade L356 be used.

TABLE A (Cont.)

MACHINE KS AND DESCRIPTION			NO. PER MACH	LATEST KS-5555, LIST NO. GRADE		BRUSH SHAPE SIZE IN INCHES	
15842 — MOTOR-GENERATOR							
LIST	V	A					
3	160	100	8	170	581	C	2 × 1-1/4 × 3/8
4	160	150	8	171	581	C	2 × 1-1/4 × 1/2
5	160	300	12	172	581	C	2 × 1-1/4 × 5/8
6	160	100	8	170	581	C	2 × 1-1/4 × 3/8
7	160	150	8	171	581	C	2 × 1-1/4 × 1/2
8	160	300	12	172	581	C	2 × 1-1/4 × 5/8
15844 — MOTOR-DRIVEN ALTERNATOR DC Motor							
				701	53-617-376-501S		1-5/8 × 1-1/4 × 3/8
15847 — SWITCH — MOTOR-DRIVEN CAM TYPE			Give nameplate data.				
15884 — ENGINE-ALTER- NATOR			Give nameplate data and state whether for alternator or exciter.				
15890 — ENGINE-ALTER- NATOR			Give nameplate data and state whether for alternator or exciter.				
15899 — ENGINE-ALTER- NATOR			Give nameplate data and state whether for alternator or exciter.				
15929 — ENGINE-ALTER- NATOR			Give nameplate data and state for alternator slip rings.				
15949 — MOTOR-DRIVEN ALTERNATOR DC Motor							
			4	*511	EG11		1-5/8 × 1-1/4 × 1/2
15985 — RINGING MACHINE (Electric Specialty) DC Commutator							
			2	507	EG11		11/16 × 1/4 × 1/4
♦Holtzer — Cabot L2 Commercial Electric L2, L3 DC Commutator			2	346	SA2522	Q	1-1/4 × 1/4 × 1/4 ♦
15986 — MOTOR-GENERATOR DC Motor							
			4	393	EP108		1-1/2 × 1 × 3/8
			4	394	EP215		1-1/4 × 1/4 × 5/8
15991 — MOTOR-ALTERNATOR List 1							
	Motor		4	513	EG11	W	1-5/8 × 1-1/4 × 7/16
	Alternator		4	501	EG11D	H	1-1/8 × 5/8 × 5/16
	Speed Regulator		3	512	EG11D	QA	1/2 × 7/16 × 1/4

\*List 511 is furnished with a metal clip containing an adjusting screw. The assembled brush, clip, and screw is designed to be used in a solenoid operated brush lifter.

TABLE A (Cont)

MACHINE KS AND DESCRIPTION	NO. PER MACH	LATEST		SHAPE	BRUSH SIZE IN INCHES
		KS-5555, LIST NO.	GRADE		
List 2					
Motor	8	514	EG11	Z	1-1/2 × 1-1/2 × 1/2
Alternator	4	515	E23	W	1-3/4 × 5/8 × 5/8
Speed Regulator	3	512	EG11D	QA	1/2 × 7/16 × 1/4
15993 — MOTOR-DRIVEN ALTERNATOR					
L1 DC Motor	8	198	R310		2 × 1-1/4 × 3/8
L2 DC Motor	8	197	R310		2 × 1-1/4 × 1/2
15994 — MOTOR-DRIVEN ALTERNATOR					
L1 DC Motor	4	601	258	W	1-3/4 × 1-1/2 × 3/8
L2 DC Motor	4	602	258	W	1-3/4 × 1/2 × 1/2
19203 — MOTOR-ALTERNATOR					
L1					
Motor	4	513	EG11	W	1-5/8 × 1-1/4 × 7/16
Alternator	8	501	EG11D	H	1-1/8 × 5/8 × 5/16
Speed Regulator	3	512	EG11D	QA	1/2 × 7/16 × 1/4
L2					
Motor	8	514	EG11	Z	1-1/2 × 1-1/2 × 1/2
Alternator	8	515	E23	W	1-3/4 × 5/8 × 5/8
Speed Regulator	3	512	EG11D	QA	1/2 × 7/16 × 1/4
♦ L3					
MOTOR	4	801	—X23*	W	1 × 1 × 3/8
L4					
Motor	8	802	—X25*	W	1-1/2 × 1-1/4 × 1/2 ♦
D Spec } PORTABLE EX- 96738 } HAUSTER					
GE Motor Model 5BC44AB46	2	185	BP-20	Q	0.82 × 3/8 × 1/4
D Spec } PORTABLE EX- 97067 } HAUSTER					
Holtzer-Cabot Motor Type CWD-3020, 1/10-HP	2	305	255	X	1-1/32 × 1/2 × 5/16

♦ \* Indicates machine manufacturers brush designation, actual brush grade information considered to be proprietary by manufacturer. ♦

TABLE A (Cont)

MACHINE KS AND DESCRIPTION	NO. PER MACH	LATEST		SHAPE	BRUSH
		KS-5555, LIST NO.	GRADE		SIZE IN INCHES
<b>HD- AND M-TYPE MOTOR-GENERATORS</b>					
(Holtzer-Cabot Type)					
M-1					
DC Motor (110-220V)	4	324	255	A	1-5/8 × 63/64 × 3/8
			or		
DC Gen (30-65V)			D-16		
			Give nameplate data.		
M-2					
DC Motor (110-220V)	4	324	255	A	1-5/8 × 63/64 × 3/8
			or		
DC Gen (65V)			D-16		
DC Gen (30-45V)			Give nameplate data.		
			Give nameplate data.		
M-3					
DC Motor (110-220V)	4	320	255	A	1-3/4 × 63/64 × 1/2
			or		
DC Gen (65V)			D-16		
			Give nameplate data.		
DC Gen (45V)			Give nameplate data.		
DC Gen (30V)			Give nameplate data.		
HD-1					
DC Motor (110-220V)	2	322	255	G	1-1/4 × 7/8 × 3/8
			or		
DC Gen (30-65V)	2	322	255	G	1-1/4 × 7/8 × 3/8
			or		
			D-16		
HD-2					
DC Motor (110-220V)	2	322	255	G	1-1/4 × 7/8 × 3/8
			or		
DC Gen (30-65V)	4	323	255	F	1-5/8 × 5/8 × 1/2
			or		
			D-16		

TABLE A (Cont)

MACHINE KS AND DESCRIPTION	NO. PER MACH	LATEST		BRUSH	
		KS-5555, LIST NO.	GRADE	SHAPE	SIZE IN INCHES
<b>HD-12</b>					
DC Motor (110-220V)	2	322	255 or D-16	G	1-1/4 × 7/8 × 3/8
DC Gen (30-65V)	2	322	255 or D-16	G	1-1/4 × 7/8 × 3/8
<b>HD-13</b>					
DC Motor (40-250V)	2	317	255	G	1-1/4 × 5/8 × 3/8
<b>HD-14</b>					
DC Gen (46-65 V)	2	317	255	G	1-1/4 × 5/8 × 3/8
<b>800-TYPE MERCURY INTERRUPTERS</b>	9 to 39 WECO P-247257 (Variable)			X	3/4 × 11/32 × 1/4

TABLE B

BRUSH LIST	KS SPEC OF MACH		BRUSH LIST	KS SPEC OF MACH		BRUSH LIST	KS SPEC OF MACH		
1	5001	5066	25	5068		†60	*5123		
2	5001	5015	26	5068		61	5123	5245	5296
	5067	5072	†27	*5117			5450	5467	
	5099	5109	†28	*5123		†62	*5123	*5245	*5296
	5362	5388					*5450	*5467	*5518
3	5001	5015	†29	*5123		†63	*5137	*5442	
	5066	5067	†30	*5123		64	5137	5442	
	5073	5099	†31	*5123		†65	*5137		
	5195	5196	†32	*5123		†66	*5137		
	5362	5388	†33	*5123		67	5137	5654	7491
4	5006	5123	†34	*5123		†68	*5137		
	5397	5396	†35	*5123		†69	*5366		
5	5006	5396	†36	*5123		†70	*5137		
6	5006	5396	†37	*5123		71	5137		
7	5006	5296	38	*5123	5296	†72	*5137		
	5397	5396	†39	*5123		†73	*5195	*5196	
			40	*5123	5296	†74	*5245		
8	5010	5011	41	5442		†75	*5293	*5376	
9	5010	5011	42	5123		76	5296	5654	
10	5010	5011	†43	*5123		77	5296		
	5030	5028	44	5123		†78	*5118	*5380	*5402
11	5010	5011	45	5123		†79	*5380		
12	5010	5011	46	5123		80	5396	5397	
	5030		†47	*5123		81	5396	5397	
13	5011		48	5123		82	5396	5397	
14	5011		49	5123		83	5396	5397	
15	5015	5067	†50	*5123		†84	*5419	*5469	
16	5020	5021	51	5123		†85	Never used		
†17	*5028	*5030	52	5123		86	5137	*5419	5442
†18	*5028	*5030	†53	*5123		†87	*5430		
19	5039	5157	†54	*5123		88	5430		
20	5442		†55	*5123		89	5430		
21	5051	5068	†56	*5123		90	5430		
	5196	5195	†57	*5123		91	5137	5442	5448
†22	*5469		†58	*5123		†92	*5137	*5442	
23	5068		59	5123					
24	5068								

TABLE B (Cont)

BRUSH LIST	KS SPEC OF MACH			BRUSH LIST	KS SPEC OF MACH		BRUSH LIST	KS SPEC OF MACH	
93	5137	5442	5448	†133	*5123		179	5506	
94		5654		†134	*5123		180	7491	
95	5137			135	*5123		181	5550	
				†136	*5123		182	5123	
96	5137						183	5123	
97	*5293	5366	*5376	†137	*5123		184	5137	5748 8038
†98	*5396			†138	*5123		185	5442	D Spec 96738
99	5396	5397		139	5137			5137	
100	5396	5397		†140	*5137		186	5137	
				141	5654		187	5137	
†101	*5419						188	5123	5137
102	5366			142	5654		189	5123	
103	5366			143	5654		190	5123	
104	5123			144	5654		191	5123	
				145	5671		192	5123	
105	5123			146	5671		193	15839	
106	5123						194	15839	
†107	*5123			147	5123		†195	15839	
108	5123	5467	5518	148	5123		195A	15839	
				†149	*5748		196	5123	
109	5396	5397					197	15993	
110	5293	5376	5532				198	15993	
	5540			150	5748		199	15839	
†111	*5419			151	15520		200	15804	
†112	*5396			152	15520		301	5032	
113	5430			153	15520		302	5032	5133
†114	*5506	*5540		†154	*15520		303	5032	
†115	*7491			155	15520		304	*5032	*5131 *5132
†116	*8038	*D Spec 96738		†156	*15520			5133	*5159 *5352
				†157	*5123		305	5032	D Spec 97067
†117	5396	5397		†158	*5123		†306		
†118	*5123			†159	*5123		†307	Never used	
119	5123			160	5123		†308		
120	5123			161	5123		†309	*5133	*5187 *5188
121	5123	5550		162	5123			*5313	*5510
				163	5123		†310	*5133	*5187 *5188
122	5123	5245	5296	164	15816			*5510	
	5450	5467	5518	165	15816		†311	*5133	*5187 *5188
	5550	*5549		166	15816			*5313	*5510
				167	*15839		312	5131	5132 5133
†123	*5549	*5550		168	*15839			*5546	
124	5012			169	*15839		†313	*5319	
125	5028	5030		170	15842		314	5133	
†126	*5123			171	15842		315	5131	5132 5187
127	5245			172	15842			5188	5313
128	5123			173	5117		316	5319	5510 5546
129	5123			174	5123			5659	
130	5580			175	5137	5442	317	HD13, HD14	
131	5123			176	5402		†318	*M1 & M2	
†132	*5123			177	5123		†319	*M2 & M3	
							320	M3	
							†321	*M3	

TABLE B (Cont)

BRUSH LIST	KS SPEC OF MACH	BRUSH LIST	KS SPEC OF MACH	BRUSH LIST	KS SPEC OF MACH
322	HD1, HD2	†376	*5500	405	5668
	HD12	†377	*5500	406	5668
323	HD2	†378	*5500	407	5668
		†379	*5500	408	5668
324	M1 & M2			409	5575
325	5159 5319 5352	†380	*5500	410	5668
326	5159 5319 5352	†381	*5500	411	5668
†327	*5319	382	5500	412	5668
†328	*5319	383	5500	413	5668
329	5131 5132 5187	384	5500	414	5668
	5188 5313 5458	385	5500 5547	415	5668
	15532			416	5668
330	5133	386	5500 5547	417	15834
†331	*5133	387	5500	418	15834
		388	5500	419	15834
332	5032 5133 5510	389	5500		
	5540 5659	390	5500	501	5726 15532 15991
†333	*5319 *5546 *5659	391	5500	502	15532
334	5319	392	5575	503	5726 15532
335	5319	393	15986	504	5319 15532
336	5319	394	15986	505	5319
†337	*5546 *5659	401	5668	506	5726
338	5133 5187 5188	402	5668	507	15532 15804 15985
	5313 5510	403	5668	508	5726
339	5133 5187 5188	404	5668	509	15532
	5510			*510	15532
340	5319 5546 5659			511	15823 15949
	15547			512	15991
341	5133 5187 5188			513	15991
	5313 5510			514	15991
342	15532			515	15991
343	15804				
344	5546			601	15994
345	5546			602	15994
346	5319-04 5546 15804 15985			701	15844
347	5319-04			801	19203
				802	19203