

Singer 107-1
Singer 107-2

Form 8426—Revised
March, 1933
PRINTED IN U. S. A.

LIST OF PARTS



SINGER^{**} MACHINES Nos. 107-1 and 107-2

THE SINGER MANUFACTURING COMPANY

Copyright © 1933 by The Singer Manufacturing Company

^{**}A Trade Mark of THE SINGER MANUFACTURING COMPANY

From the library of: Superior Sewing Machine & Supply LLC

INSTRUCTIONS FOR OILING

To insure easy running and prevent unnecessary wear of the parts which are in movable contact, the machine requires oiling, and when in continuous use, "TYPE B" or "TYPE D" OIL, sold by Singer Sewing Machine Company, should be applied at least twice each day to all oil holes marked "OIL", as instructed in Form 8366.

"TYPE D" OIL should be used when an oil is desired which will produce a minimum of stain on fabrics, even after a long period of storage.

INDEX

	PAGE
ACCESSORIES.....	19
FOOT LIFTER PARTS.....	19
IRON BASE.....	19
KNEE LIFTER PARTS.....	20
MACHINE No. 107-1.....	7
MACHINE No. 107-2.....	14
NUMERICAL LIST OF PARTS.....	23
TABLE SUPPORT PARTS.....	21
THREAD UNWINDER.....	21

INSTRUCTIONS FOR ORDERING

In ordering from this list, use ONLY the part NUMBER in the FIRST column.

The number stamped on a Sewing Machine Part is in every case the number of the single part only.

Every combination of parts sent out as such has its specific number, which, although not stamped on the parts, must be used when ordering the combination.

Each number always indicates the SAME PART in whatever list it appears, or for whatever machine.

The letters after some of the numbers indicate the style of finish only, as follows:

- A—Hardened, Polished, Nickel Plated and Buffed
- A.A—Buffed and Chromium Plated
- A.B—Hardened, Polished, Buffed and Chromium Plated
- A.C—Brown Baking Enamel Finish
- A.D—Gray Baking Enamel Finish
- A.E—Hardened, Bright Rumbled and Nickel Plated
- A.F—Hardened, Bright Rumbled, Nickel Plated, Bright Rumbled and Chromium Plated
- A.G—Alumilite, Plain
- A.H—Alumilite, Dyed
- A.J—Polished, Nickel Plated and Chromium Plated
- A.K—Hardened, Polished, Nickel Plated and Chromium Plated
- A.L—Heat Treated for Toughness
- B—Polished, Nickel Plated and Buffed
- C—Hardened Only
- C.R—Hardened and Merlized
- D—Polished Only
- E—Soft, Not Polished
- F—Hardened and Polished
- F.J—Hardened, Polished and Nickel Plated
- G—Bright Rumbled and Nickel Plated
- H—Blued
- J—Nickel Plated Only
- K—Hardened and Nickel Plated
- L—Brass Plated
- M—Oxidized
- N—Japanned, Dull
- P—Japanned, Bright
- P.P—Wrinkle Finish
- R—Merlized
- S—Cadmium Plated
- T—Copper Plated
- T.A—Hardened, Polished, Copper and Nickel Plated and Buffed
- T.B—Copper and Nickel Plated and Polished
- T.J—Copper and Nickel Plated Only
- T.K—Hardened, Copper and Nickel Plated
- T.L—Copper and Brass Plated
- T.M—Copper Plated and Oxidized

INSTRUCTIONS FOR ORDERING—Continued

- U—Zinc Plated
- V—Silver Plated
- W—Polished and Nickel Plated
- X—Black Oxide, for Iron and Steel
- X.C—Hardened and Black Oxide, for Iron or Steel
- Y—Black Nickel Plated Only
- Z—Chromium Plated
- Z.A—Hardened, Polished, Nickel Plated, Buffed and Chromium Plated
- Z.B—Polished, Nickel Plated, Buffed and Chromium Plated
- Z.C—Hardened and Chromium Plated
- Z.D—Polished and Chromium Plated
- Z.G—Bright Rumbled, Nickel Plated, Bright Rumbled and Chromium Plated
- Z.J—Nickel and Chromium Plated
- Z.T—Copper and Chromium Plated

These letters MUST BE USED when they appear in the list; and AFTER the number as in the list.

In this series:

1 to 1500, 50001 to 51500 and 140001 to 142000 are Screw Numbers

1501 to 1800 and 51501 to 51800 are Nut Numbers

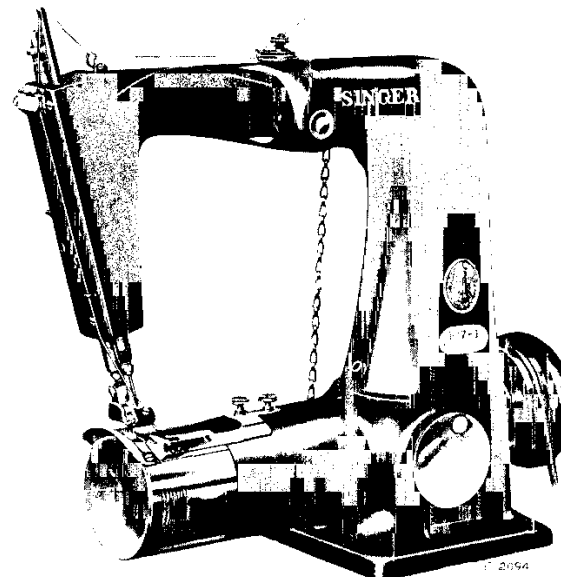
1801 to 2000 and 51801 to 52000 are Roller Numbers

2001 to 50000 and 52001 to 140000 and 142001 to 190000 are Sewing Machine Parts, 190001 and upward are numbers of Electrical Parts.

The figures in the second column refer only to the plates, illustrating the parts, and are NOT TO BE USED in ordering.

Parts marked with an asterisk (*) are furnished only when repairs are made at factory.

**LIST OF PARTS COMPLETE
FOR**



MACHINE No. 107-1

**FOR STITCHING PAPER LINING IN LADIES' HATS; ALSO
TAPED SWEAT BANDS, EITHER FITTED OR NOT FITTED,
IN MEN'S STRAW AND SOFT FELT HATS. GREATEST
DISTANCE BETWEEN THROAT PLATE AND PRESSER
FOOT $\frac{13}{16}$ INCH. MAXIMUM LENGTH OF STITCH $\frac{1}{2}$ IN.**

NO.	PLATE	NAME
*59001	—	Arm with 15404 and two 15405.....
16532	7113	" Dowel Pin.....
11119	7113	" Oil Tube with 52045, for oiling 59014
52045	7101	" " " Packing (cotton).....
748E	7114	" Screw.....
15196	7110	" Side Cover.....
286J	7114	" " " Thumb Screw.....

SINGER Needles should be used
in **SINGER** Machines
These Needles and their Containers
are marked with the
Company's Trade Mark "SIMANCO.**" 1

Needles in Containers marked
"FOR SINGER MACHINES"
are NOT **SINGER** made needles. 2

NO.	PLATE	NAME
59002	7100	Balance Wheel with 423c and 1354c.....
1354c	7114	" " Position Screw.....
423c	7114	" " Set Screw.....
*59003	—	Cylinder.....
59004	7100	" End Cover.....
59005	7100	" Rotary Shaft.....
59006	7101	" " Bushing (front)....
52045	7101	" " " " Pack- ing (cotton).....
1036c	7101	Cylinder Rotary Shaft Bushing (front) Set Screw.....
59007	7101	Cylinder Rotary Shaft Bushing (inter- mediate).....
52045	7101	Cylinder Rotary Shaft Bushing (inter- mediate) Packing (cotton).....
1036c	7101	Cylinder Rotary Shaft Bushing (inter- mediate) Set Screw.....
59008	7101	Cylinder Rotary Shaft Collar with two 454c.....
454c	7101	Cylinder Rotary Shaft Collar Set Screw..
59009	7100	" " " Flanged Bushing (back).....
54969	7101	Cylinder Rotary Shaft Flanged Bushing (back) Packing (braided cotton).....
1036c	7101	Cylinder Rotary Shaft Flanged Bushing (back) Set Screw.....
15196	7110	Cylinder Side Cover.....
286j	7114	" " " Thumb Screw.....
59010	7110	Face Plate with 2827.....
402j	7114	" " Screw (lower).....
207j	7114	" " " (upper).....
2827	7101	" " Thread Guard with 8505.....
8505	7101	" " " Rivet.....
59011	7102	Feed Dog, 7 teeth, for straw hats, for 59043.....
59012	7103	Feed Dog, 6 teeth (10 teeth to the inch) for soft felt hats, for 59045.....
59057	7102	Feed Dog, 8 teeth, for Java hats, for 59043.....
59059	7103	Feed Dog, 8 teeth, for silk linings, etc., for 59060.....
59061	7104	Feed Dog, 15 teeth, for velvet hats, etc., for 59064.....
59013	7101	Feed Dog Carrier with 208f.....
55791	7101	" " " Connecting Link.....
55792	7101	" " " " Hinge Pin.....

NO.	PLATE	NAME
208f	7101	Feed Dog Carrier Connecting Link Hinge Pin Set Screw.....
378c	7101	Feed Dog Carrier Hinge Screw.....
1520c	7101	" " " " Nut.....
190j	7114	" " Screw.....
*38589	—	" Eccentric.....
*22343	—	" " Body.....
51061c	7121	" " Set Screw.....
59014	7101	" " Connection with 59015 and two 1057e.....
59073	—	Feed Eccentric Connection 59014 with 1373c, 1520c and 38590.....
*59015	—	Feed Eccentric Connection Cap.....
1057e	7101	" " " " Screw.....
1373c	7101	" " " " Hinge Screw...
1520c	7101	" " " " " Nut
61171	7121	" " Pressure Spring.....
21332	7105	" " " " Cap.....
934j	7105	" " " " " Screw
196f	7105	" " Set Screw.....
38590	7105	Feed Eccentric (adjustable) complete, Nos. 196f, 934j, 1103c, 21332, 22343, 38589, 61171 and two 51061c.....
59016	7105	Feed Lifting Eccentric with 462c and 50274c.....
59017	7105	Feed Lifting Eccentric Connection with 171j and 59019.....
171j	7105	Feed Lifting Eccentric Connection Ad- justing Screw.....
59018	7105	Feed Lifting Eccentric Connection Arm
42045	7105	" " " " " "
		Hinge Pin.....
1259c	7105	Feed Lifting Eccentric Connection Arm Hinge Pin Set Screw.....
59019	7105	Feed Lifting Eccentric Connection Gib...
378c	7101	" " " " Hinge Screw.....
1520c	7101	Feed Lifting Eccentric Connection Hinge Screw Nut.....
462c	7105	Feed Lifting Eccentric Set Screw.....
1103c	7105	" Regulating Screw.....
59020	7110	" Rock Shaft.....
42532	7105	" " " Collar with 457c.....
457c	7105	" " " Set Screw.....
59021	7105	" " " Crank (back) with 1036c and 1375c.....

10 PARTS FOR MACHINE No. 107-1

NO.	PLATE	NAME
1375c	7105	Feed Rock Shaft Crank (back) Position Screw.....
1036c	7101	Feed Rock Shaft Crank (back) Set Screw.....
59022	7105	" " " " (front) with 208F and two 1036c.....
1036c	7101	Feed Rock Shaft Crank (front) Set Screw.....
36722	7106	Guide (sweat).....
36723	7106	" " Shank.....
12152	7106	" " " Rivet.....
36724	7106	Guide complete, for hat sweats, for straw hats, Nos. 36722, 36723 and two 12152.....
793j	7106	Guide Thumb Screw.....
7071	7106	" " " Washer.....
36725	7108	" (hat).....
217j	7108	" " Screw.....
36722	7106	" (sweat) for 36800.....
36729	7107	" " " 36730.....
217j	7108	" " Screw.....
36731	7107	" " Shank.....
12152	7106	" " " Rivet.....
36800	7107	Guide (sweat) complete for 36894, Nos. 36722, 36731 and two 12152.....
36730	7107	Guide (sweat) complete for 36895, Nos. 36729, 36731 and two 12152.....
36892	7108	Guide Holder.....
916c	7108	" " Hinge Screw Stud.....
44209	—	" " " " 916c with 1560c.....
1547j	7121	Guide Holder Hinge Screw Stud Nut.....
82445	7121	" " Spring.....
1560c	7112	" " Thumb Nut.....
36893	7107	" " Shank.....
36894	—	Guide (hinged) complete, for sewing fitted hat sweats in men's straw hats, Nos. 1547j, 36725, 36800, 36892, 36893, 44209, 82445 and four 217j.....
36895	—	Guide (hinged) complete, for hat sweats for soft felt hats, Nos. 1547j, 36725, 36730, 36892, 36893, 44209, 82445 and four 217j.....
176j	7108	Guide Screw.....
7071	7106	" " Washer.....
36971	7109	Hat Sweat Guide (lower).....
36972	7109	" " " (upper).....
193F	7109	" " " " Screw.....

PARTS FOR MACHINE No. 107-1 11

NO.	PLATE	NAME
36973	—	Hat Sweat Guide complete, for plain leather without reed or backing, Nos. 36971, 36972 and two 193F.....
176j	7108	Hat Sweat Guide Screw.....
7071	7106	" " " " Washer.....
59023	7111	Looper with 34418.....
50274c	7111	" Set Screw.....
34418	7111	" Washer.....
59024	7110	Needle Bar (hollow).....
59058	7110	" " " with 735F.....
59025	7111	" " Bushing (lower).....
462c	7105	" " " " Set Screw....
59026	7111	" " " (upper).....
462c	7105	" " " " Set Screw....
59027	7111	" " Connecting Bracket with 208F and 1057E.....
1057E	7101	Needle Bar Connecting Bracket Clamping Screw.....
55791	7101	Needle Bar Connecting Link.....
55792	7101	" " " " Hinge Pin...
208F	7101	" " " " " " Set Screw.....
59028	7115	Needle Bar Lever with 208F and three 1036c.....
59029	7115	Needle Bar Lever Connecting Rod with 42059, 42076 and four 1057E.....
42074	7111	Needle Bar Lever Connecting Rod Ball Stud (upper).....
1036c	7101	Needle Bar Lever Connecting Rod Ball Stud (upper) Set Screw.....
*42076	—	Needle Bar Lever Connecting Rod Cap (lower).....
1057E	7101	Needle Bar Lever Connecting Rod Cap (lower) Screw.....
*42059	—	Needle Bar Lever Connecting Rod Cap (upper).....
1057E	7101	Needle Bar Lever Connecting Rod Cap (upper) Screw.....
42077	7111	Needle Bar Lever Connecting Rod Guide
171F	7105	" " " " " " Screw.....
59030	7111	Needle Bar Lever Hinge Pin.....
59031	7111	" " " " " Bushing....
1036c	7101	" " " " " " Set Screw.....
1036c	7101	Needle Bar Lever Hinge Pin Set Screw....
1678c	7111	" Clamping Nut for 59024.....

12 PARTS FOR MACHINE No. 107-1

NO.	PLATE	NAME
735F	7114	Needle Set Screw for 59058.....
59032	7110	Presser Bar (hollow).....
59033	7111	" " Bushing.....
462c	7105	" " " Set Screw.....
59034	7111	" " Guide and Lifting Bracket with 152E and 1485H.....
152E	7111	Presser Bar Guide and Lifting Bracket Adjusting Screw.....
1485H	7111	Presser Bar Guide and Lifting Bracket Clamping Screw.....
2062	7112	Presser Bar Lifter.....
689c	7112	" " " Screw.....
1520c	7101	" " " Nut.....
11167	7112	" " Spring.....
11170	7112	" " Washer.....
59035	7102	" Foot Guide.....
208J	7101	" " Screw.....
59036	7112	" " Hinge Pin.....
59037	—	" " Plate.....
59038	—	" " Shank.....
59039	7102	Presser Foot (hinged) complete, for 59011, 59012, 59057 and 59059, Nos. 208J and 59035 to 59038.....
59036	7112	Presser Foot Hinge Pin.....
59062	—	" " Plate.....
59038	—	" " Shank.....
59063	7104	Presser Foot (hinged) complete for 59061, Nos. 59036, 59038 and 59062.....
190J	7114	Presser Foot Screw.....
688E	7112	Pressure Regulating Thumb Screw.....
2102	7112	Tension Disc.....
1560c	7112	" Regulating Thumb Nut.....
916c	7112	" Screw Stud.....
44209	—	" " " 916c with 1560c.....
10148	7112	" Spring.....
17547	7112	" Thread Guide.....
19068	7112	Thread Controller Bracket.....
190J	7114	" " Screw.....
59054	7112	" " Guide Plate with 59040.....
59040	7112	" " " Stud.....
59041	7115	" " Releasing Rod.....
59042	7112	" " Spring.....
19074	7112	" Guide (top of arm).....
330J	7112	" " " " Screw.....
59043	7102	Throat Plate with 59044 and two 1231b, for 59011 and 59057.....

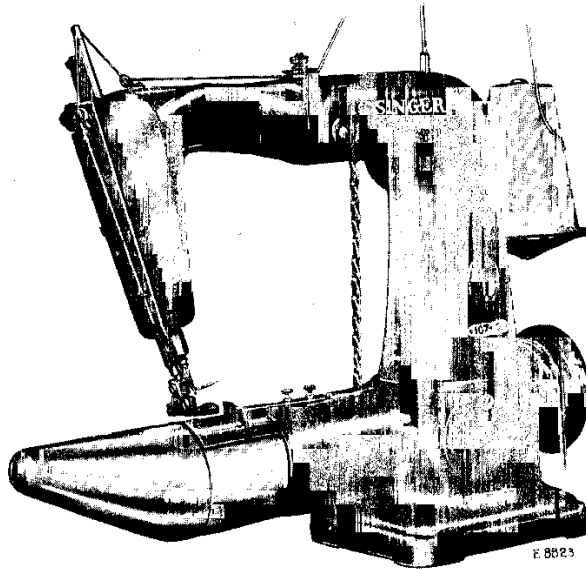
PARTS FOR MACHINE No. 107-1 13

NO.	PLATE	NAME
59044	7102	Throat Plate Extension.....
1231b	7102	" " " Screw.....
59045	7103	" " " for 59012.....
59060	7103	" " " 59059.....
59064	7104	" " " 59061.....
742F	7114	" " Screw.....
*15404	—	Trade Mark.....
15405	—	" " Rivet.....

SINGER Needles should be used
in **SINGER** Machines
These Needles and their Containers
are marked with the
Company's Trade Mark "**SIMANCO**.*" 1

Needles in Containers marked
"**FOR SINGER MACHINES**"
are **NOT SINGER** made needles. 2

LIST OF PARTS COMPLETE FOR



MACHINE No. 107-2

FOR BASTING OR LINING OF COAT SLEEVES, ALSO FOR THE BASTING OF PANTS BOTTOMS. GREATEST DISTANCE BETWEEN THROAT PLATE AND PRESSER FOOT IS $\frac{3}{8}$ IN. MAXIMUM LENGTH OF STITCH $\frac{1}{2}$ IN. THE MACHINE IS FITTED WITH A CYLINDER END CAP THAT IS BEVE'ED FOR THE CONVENIENCE OF SLIPPING THE SLEEVE OVER THE CYLINDER.

NO.	PLATE	NAME
*59001	—	Arm with 15404 and two 15405.....
16532	7113	" Dowel Pin.....
11119	7113	Arm Oil Tube with 52045, for oiling 59014.....

PARTS FOR MACHINE No. 107-2

NO.	PLATE	NAME
52045	7101	Arm Oil Tube Packing (cotton).....
748E	7114	" Screw.....
15196	7110	" Side Cover.....
286J	7114	" " " Thumb Screw.....
59002	7100	Balance Wheel with 423c and 1354c.....
1354c	7114	" " Position Screw.....
423c	7114	" " Set Screw.....
*59003	—	Cylinder.....
59075	7120	" End Cover.....
59076	—	" " 59075 with 59077 and two 158r.....
59077	7120	Cylinder End Cover Extension.....
158J	7121	" " " " Screw.....
59079	7119	" " " Support.....
217J	7108	" " " " Screw.....
59005	7100	" Rotary Shaft.....
59006	7101	" " " Bushing (front).....
52045	7101	" " " " Pack- ing (cotton).....
1036c	7101	Cylinder Rotary Shaft Bushing (front) Set Screw.....
59007	7101	Cylinder Rotary Shaft Bushing (inter- mediate).....
52045	7101	Cylinder Rotary Shaft Bushing (inter- mediate) Packing (cotton).....
1036c	7101	Cylinder Rotary Shaft Bushing (inter- mediate) Set Screw.....
59008	7101	Cylinder Rotary Shaft Collar with two 454c
454c	7101	" " " " Set Screw...
59009	7100	" " " Flanged Bushing (back).....
54969	7101	Cylinder Rotary Shaft Flanged Bushing (back) Packing (braided cotton).....
1036c	7101	Cylinder Rotary Shaft Flanged Bushing (back) Set Screw.....
15196	7110	Cylinder Side Cover.....
286J	7114	" " " Thumb Screw.....
59010	7110	Face Plate with 2827.....
402J	7114	" " " Screw (lower).....
207J	7114	" " " (upper).....
2827	7101	" " Thread Guard with 8505.....
8505	7101	" " " Rivet.....
59069	7118	Feed Dog, 17 teeth (16 teeth to the inch) for 59072.....
59013	7101	Feed Dog Carrier with 208r.....
55791	7101	" " " Connecting Link.....

16 PARTS FOR MACHINE No. 107-2

NO.	PLATE	NAME
55792	7101	Feed Dog Carrier Connecting Link Hinge Pin.....
208F	7101	Feed Dog Carrier Connecting Link Hinge Pin Set Screw.....
378c	7101	Feed Dog Carrier Hinge Screw.....
1520c	7101	" " " " " Nut.....
190J	7114	" " Screw.....
*38589	—	" Eccentric.....
*22343	—	" " Body.....
51061c	7121	" " " Set Screw.....
59014	7101	" " Connection with 59015 and two 1057E.....
59073	—	Feed Eccentric Connection 59014 with 1373c, 1520c and 38590.....
*59015	—	Feed Eccentric Connection Cap.....
1057E	7101	" " " " " Screw.....
1373c	7101	" " " " " Hinge Screw.....
1520c	7101	" " " " " " Nut
61171	7121	" " " " " Pressure Spring.....
21332	7105	" " " " " Cap.....
934J	7105	" " " " " " Screw
196F	7105	" " " " " Set Screw.....
38590	7105	Feed Eccentric (adjustable) complete, Nos. 196F, 934J, 1103c, 21332, 22343, 38589, 61171 and two 51061c.....
59016	7105	Feed Lifting Eccentric with 462c and 50274c.....
59017	7105	Feed Lifting Eccentric Connection with 171J and 59019.....
171J	7105	Feed Lifting Eccentric Connection Adjusting Screw.....
59018	7105	Feed Lifting Eccentric Connection Arm
42045	7105	" " " " " " "
		Hinge Pin.....
1259c	7105	Feed Lifting Eccentric Connection Arm Hinge Pin Set Screw.....
59019	7105	Feed Lifting Eccentric Connection Glib.....
378c	7101	" " " " " Hinge Screw.....
1520c	7101	Feed Lifting Eccentric Connection Hinge Screw Nut.....
462c	7105	Feed Lifting Eccentric Set Screw.....
1103c	7105	" Regulating Screw.....
59020	7110	" Rock Shaft.....
42532	7105	" " " " " Collar with 457c.....
457c	7105	" " " " " Set Screw.....

PARTS FOR MACHINE No. 107-2 17

NO.	PLATE	NAME
59021	7105	Feed Rock Shaft Crank (back) with 1036c and 1375c.....
1375c	7105	Feed Rock Shaft Crank (back) Position Screw.....
1036c	7101	Feed Rock Shaft Crank (back) Set Screw.
59022	7105	" " " " " (front) with 208F and two 1036c.....
1036c	7101	Feed Rock Shaft Crank (front) Set Screw.
120380	7119	Guide.....
793J	7106	" Thumb Screw.....
7071	7106	" " " " Washer.....
59023	7111	Looper with 34418.....
50274c	7111	" Set Screw.....
34418	7111	" Washer.....
59024	7110	Needle Bar (hollow).....
59081	7119	" " Bushing (lower).....
462c	7105	" " " " " Set Screw....
59026	7111	" " " " " (upper).....
462c	7105	" " " " " Set Screw....
59027	7111	" " " " " Connecting Bracket with 208F and 1057E.....
1057E	7101	Needle Bar Connecting Bracket (Clamping Screw).....
55791	7101	Needle Bar Connecting Link.....
55792	7101	" " " " " Hinge Pin....
208F	7101	" " " " " " " Set Screw.....
59028	7115	Needle Bar Lever with 208F and three 1036c.....
59029	7115	Needle Bar Lever Connecting Rod with 42059, 42076 and four 1057E.....
42074	7111	Needle Bar Lever Connecting Rod Ball Stud (upper).....
1036c	7101	Needle Bar Lever Connecting Rod Ball Stud (upper) Set Screw.....
*42076	—	Needle Bar Lever Connecting Rod Cap (lower).....
1057E	7101	Needle Bar Lever Connecting Rod Cap (lower) Screw.....
*42059	—	Needle Bar Lever Connecting Rod Cap (upper).....
1057E	7101	Needle Bar Lever Connecting Rod Cap (upper) Screw.....
42077	7111	Needle Bar Lever Connecting Rod Guide
171F	7105	" " " " " " " " Screw.....

NO.	PLATE	NAME
59030	7111	Needle Bar Lever Hinge Pin.....
59031	7111	" " " " " Bushing.....
1036c	7101	" " " " " " Set Screw.....
1036c	7101	Needle Bar Lever Hinge Pin Set Screw...
1678c	7111	" Clamping Nut for 59024.....
59032	7110	Presser Bar (hollow).....
59033	7111	" " Bushing.....
462c	7105	" " " Set Screw.....
59034	7111	" " Guide and Lifting Bracket with 152E and 1485H.....
152E	7111	Presser Bar Guide and Lifting Bracket Adjusting Screw.....
1485H	7111	Presser Bar Guide and Lifting Bracket Clamping Screw.....
59078	7119	Presser Bar Lifter.....
689c	7112	" " " Screw.....
1520c	7101	" " " Nut.....
11167	7112	" " Spring.....
11170	7112	" " Washer.....
59036	7112	" Foot Hinge Pin.....
59070	—	" " Plate.....
59038	—	" " Shank.....
59071	7118	Presser Foot (hinged) complete, Nos. 59036, 59038 and 59070.....
190J	7114	Presser Foot Screw.....
688E	7112	Pressure Regulating Thumb Screw.....
2102	7112	Tension Disc.....
1560c	7112	" Regulating Thumb Nut.....
916c	7112	" Screw Stud.....
44209	—	" " " 916c with 1560c.....
10148	7112	" Spring.....
17547	7112	" Thread Guide.....
19068	7112	Thread Controller Bracket.....
190J	7114	" " " Screw.....
59054	7112	" " Guide Plate with 59040.....
59040	7112	" " " " Stud.....
59041	7115	" " Releasing Rod.....
59042	7112	" " Spring.....
19074	7112	" Guide (top of arm).....
330J	7112	" " " " " Screw.....
59072	7118	Throat Plate for 59069.....
59080	—	" " 59072 with 59079 and 217J..
742F	7114	" " Screw.....
*15404	—	Trade Mark.....
15405	—	" " Rivet.....

IRON BASE

NO.	PLATE	NAME
59046	7117	Machine Base with three wood screws 1 1/4 in. No. 12 and four each 935E, 42088 and 66707.....
4718	7113	Machine Base Cushion (felt).....
42088	7113	" Cushion (felt).....
935E	7114	" " Screw.....
66707	7121	" " " Washer.....

ACCESSORIES

NO.	PLATE	NAME
1408E	7114	Machine Base Thumb Screw.....
14063	7113	" " " " Spring.....
9842	7113	" " " " Washer.....
120344	7116	Oiler (copper plated) with 120345.....
120345	7116	" Spout, 5 in. long.....
26151	7116	Screw Driver (large).....
26485	7116	" " (small).....
8908	7116	Wrench for 1520.....
19079	7116	" " 1678.....

FOOT LIFTER PARTS

NO.	PLATE	NAME
6439	—	Chain, 36 in. to 45 in., with 56864 and 56865.....

NOTE: When ordering No. 6439 give length
required

4879	7115	Chain Connecting Link.....
56864	7121	" Hook (large).....
56865	7121	" " (small).....
59047	7115	Lifting Lever with 448c.....
802D	7114	" " Hinge Screw.....
59048	7113	" " Link.....
766D	7114	" " Hinge Screw.....
59049	7113	" " Pin.....
448c	7114	" " " Set Screw.....
52521	7115	" " Spring.....
59050	7113	" " Stop.....
704c	7114	" " " Screw.....
754c	7114	" " " " Stud.....
59082	7117	Treadle.....
17881	7121	" Shaft.....
14369	7117	" Stand.....

NO.	PLATE	NAME
59083	7117	Treadle complete, Nos. 4879, 14369, 17881, 59082 and two wood screws 1¼ in. No. 12.....
59053	—	Foot Lifter complete, Nos. 704c, 754c, 766D, 802D, 6439, 52521, 59047 to 59050 and 59083.....

KNEE LIFTER PARTS

FOR STAND

NO.	PLATE	NAME
59055	—	Chain, length, 18 in., with two 56865....
56865	7121	" Hook.....
59047	7115	Lifting Lever with 448c.....
802D	7114	" " Hinge Screw.....
59048	7113	" " Link.....
766D	7114	" " " Hinge Screw.....
59049	7113	" " Pin.....
448c	7114	" " Set Screw.....
52521	7115	" " Spring.....
59050	7113	" " Stop.....
704c	7114	" " Screw.....
754c	7114	" " " Stud.....
2763	7117	Rock Shaft.....
12242	7117	" " Hanger with two wood screws 1 in. No. 10.....
6335	7117	Rock Shaft Knee Arm.....
6336	—	Rock Shaft Knee Arm complete, Nos. 2766, 2767 and 6335.....
2766	7117	Rock Shaft Knee Arm Hub with 356c....
356c	7114	" " " " " Set Screw....
2767	7117	" " " Plate with 356c.....
356c	7114	" " " " Set Screw.....
6337	7117	" " Lifting Bracket with two 356c.....
7125	7117	Rock Shaft Lifting Bracket Hook....
356c	7114	" " " " " Set Screw.....
356c	7114	Rock Shaft Lifting Bracket Set Screw....
2770	7117	" " Stop Dog with 356c.....
356c	7114	" " " " Set Screw.....
23767	7117	Rock Shaft complete, Nos. 2763, 2770, 6336, 6337, 7125 and two 12242.....
59056	—	Knee Lifter complete, Nos. 704c, 754c, 766D, 802D, 23767, 52521, 59047 to 59050 and 59055.....

TABLE SUPPORT PARTS

NO.	PLATE	NAME
41044	7117	Base with three wood screws 1¼ in. No. 14
41045	7117	Top with two wood screws 1¼ in. No. 14
41046	7117	Tube.....
1726P	7113	" Lock Nut.....
41047	—	Table Support Tube complete, Nos. 1726P and 41044 to 41046.....

THREAD UNWINDER

FOR ONE SPOOL

NO.	PLATE	NAME
225389	3398	Spool Rest with 201018c.....
225388	3398	" " Rod.....
200383c	7121	" " Set Screw.....
201018c	7121	" " Set Screw.....
202490	3398	" Stand with 200383c.....
225391	3398	Thread Guide.....
201696J	7121	" " Lock Nut.....
225326	7121	" " Position Cup.....
225324	3398	" " Rod with 208E and 225322
208E	7101	" " " Screw.....
225322	7121	" " " Washer.....
225394	3398	Thread Unwinder complete, Nos. 201696J, 202490, 225324, 225326, 225388, 225389, 225391 and three wood screws ⅞ in. No. 12.....
27739	7234	Thread Cone (wood) for large cones.....
225390	7234	" " Holder, for inverted cones.....

NOTE: Nos. 27739 and 225390 are used with, but not included in 225394

SINGER Needles should be used
in **SINGER** Machines
These Needles and their Containers
are marked with the
Company's Trade Mark "SIMANCO.**" 1

Needles in Containers marked
"FOR SINGER MACHINES"
are NOT **SINGER** made needles. 2

NUMERICAL LIST OF PARTS

NO. PLATE	NAME
152E 7111	Presser Bar Guide and Lifting Bracket Adjusting Screw for 59034
158J 7121	Cylinder End Cover Extension Screw for 59076
171J 7105	Feed Lifting Eccentric Connection Ad- justing Screw for 59017
171F 7105	Needle Bar Lever Connecting Rod Guide Screw
176J 7108	Guide Screw for 107-1 Machine
176J 7108	Hat Sweat Guide Screw for 107-1 Machine
190J 7114	Feed Dog Screw
190J 7114	Presser Foot Screw
190J 7114	Thread Controller Bracket Screw
193F 7109	Hat Sweat Guide (upper) Screw for 36973
196F 7105	Feed Eccentric Set Screw for 38590
207J 7114	Face Plate Screw (upper)
208F 7101	Feed Dog Carrier Connecting Link Hinge Pin Set Screw for 59013 and 59022
208F 7101	Needle Bar Connecting Link Hinge Pin Set Screw for 59027 and 59028
208J 7101	Presser Foot Guide Screw for 59039
208E 7101	Thread Unwinder Thread Guide Rod Screw for 225324
217J 7108	Cylinder End Cover Support Screw for 59080
217J 7108	Guide (hat) Screw for 36894 and 36895
217J 7108	" (sweat) Screw for 36894 and 36895
286J 7114	Arm Side Cover Thumb Screw
286J 7114	Cylinder Side Cover Thumb Screw
330J 7112	Thread Guide (top of arm) Screw
356C 7114	Rock Shaft Knee Arm Hub Set Screw for 2766
356C 7114	Rock Shaft Knee Plate Set Screw for 2767
356C 7114	Rock Shaft Lifting Bracket Hook Set Screw for 6337
356C 7114	Rock Shaft Lifting Bracket Set Screw for 6337
356C 7114	Rock Shaft Stop Dog Set Screw for 2770
378C 7101	Feed Dog Carrier Hinge Screw
378C 7101	" Lifting Eccentric Connection Hinge Screw
402J 7114	Face Plate Screw (lower)

NO. PLATE	NAME
423c 7114	Balance Wheel Set Screw for 59002.....
448c 7114	Lifting Lever Pin Set Screw for 59047.....
454c 7101	Cylinder Rotary Shaft Collar Set Screw for 59008.....
457c 7105	Feed Rock Shaft Collar Set Screw for 42532.....
462c 7105	Feed Lifting Eccentric Set Screw for 59016.....
462c 7105	Needle Bar Bushing (lower) Set Screw....
462c 7105	“ “ “ (upper) Set Screw..
462c 7105	Presser Bar Bushing Set Screw.....
688E 7112	Pressure Regulating Thumb Screw.....
689c 7112	Presser Bar Lifter Screw.....
704c 7114	Lifting Lever Stop Screw for 59053 and 59056.....
735F 7114	Needle Set Screw for 59058.....
742F 7114	Throat Plate Screw.....
748E 7114	Arm Screw.....
754c 7114	Lifting Lever Stop Screw Stud for 59053 and 59056.....
766D 7114	Lifting Lever Link Hinge Screw for 59053 and 59056.....
793J 7106	Guide Thumb Screw.....
802D 7114	Lifting Lever Hinge Screw for 59053 and 59056.....
916c 7108	Guide Holder Hinge Screw Stud for 44209.....
916c 7112	Tension Screw Stud for 44209.....
934J 7105	Feed Eccentric Pressure Spring Cap Screw for 38590.....
935E 7114	Machine Cushion Screw for 59046.....
1036c 7101	Cylinder Rotary Shaft Bushing (front) Set Screw.....
1036c 7101	Cylinder Rotary Shaft Bushing (inter- mediate) Set Screw.....
1036c 7101	Cylinder Rotary Shaft Flanged Bushing (back) Set Screw.....
1036c 7101	Feed Rock Shaft Crank (back) Set Screw for 59021.....
1036c 7101	Feed Rock Shaft Crank (front) Set Screw for 59022.....
1036c 7101	Needle Bar Lever Connecting Rod Ball Stud (upper) Set Screw for 59028.....
1036c 7101	Needle Bar Lever Hinge Pin Bushing Set Screw.....
1036c 7101	Needle Bar Lever Hinge Pin Set Screw for 59028.....

NO. PLATE	NAME
1057E 7101	Feed Eccentric Connection Cap Screw for 59014.....
1057E 7101	Needle Bar Connecting Bracket Clamping Screw for 59027.....
1057E 7101	Needle Bar Lever Connecting Rod Cap (lower) Screw for 59029.....
1057E 7101	Needle Bar Lever Connecting Rod Cap (upper) Screw for 59029.....
1103c 7105	Feed Regulating Screw for 38590.....
1231D 7102	Throat Plate Extension Screw for 59043..
1259c 7105	Feed Lifting Eccentric Connection Arm Hinge Pin Set Screw.....
1354c 7114	Balance Wheel Position Screw for 59002..
1373c 7101	Feed Eccentric Connection Hinge Screw for 59073.....
1375c 7105	Feed Rock Shaft Crank (back) Position Screw for 59021.....
1408E 7114	Machine Base Thumb Screw (Accessories)
1485H 7111	Presser Bar Guide and Lifting Bracket Clamping Screw for 59034.....
1520c 7101	Feed Dog Carrier Hinge Screw Nut.....
1520c 7101	“ Eccentric Connection Hinge Screw Nut for 59073.....
1520c 7101	Feed Lifting Eccentric Connection Hinge Screw Nut.....
1520c 7101	Presser Bar Lifter Screw Nut.....
1547J 7121	Guide Holder Hinge Screw Stud Nut for 36894 and 36895.....
1560c 7112	Guide Holder Spring Thumb Nut for 44209.....
1560c 7112	Tension Regulating Thumb Nut for 44209.....
1678c 7111	Needle Clamping Nut for 59024.....
1726P 7113	Table Support Tube Lock Nut for 41047
2062 7112	Presser Bar Lifter for 107-1 Machine....
2102 7112	Tension Disc.....
2763 7117	Rock Shaft for 23767.....
2766 7117	Rock Shaft Knee Arm Hub with 356c, for 6336.....
2767 7117	Rock Shaft Knee Plate with 356c, for 6336.....
2770 7117	Rock Shaft Stop Dog with 356c, for 23767.....
2827 7101	Face Plate Thread Guard with 8505, for 59010.....
4718 7113	Machine Base Cushion (felt).....
4879 7115	Chain Connecting Link for 59083.....

NO.	PLATE	NAME
6335	7117	Rock Shaft Knee Arm for 6336.....
6336	—	Rock Shaft Knee Arm complete for 23767, Nos. 2766, 2767 and 6335.....
6337	7117	Rock Shaft Lifting Bracket with two 356c, for 23767.....
6439	—	Chain, 36 in. to 45 in., with 56864 and 56865, for 59053.....
7071	7106	Guide Thumb Screw Washer.....
7071	7106	" Screw Washer for 107-1 Machine...
7071	7106	Hat Sweat Guide Screw Washer for 107-1 Machine.....
7125	7117	Rock Shaft Lifting Bracket Hook for 23767.....
8505	7101	Face Plate Thread Guard Rivet for 2827
8908	7116	Wrench for 1520 (Accessories).....
9842	7113	Machine Base Thumb Screw Washer (Accessories).....
10148	7112	Tension Spring.....
11119	7113	Arm Oil Tube with 52045, for oiling 59014
11167	7112	Presser Bar Spring.....
11170	7112	" " " Washer.....
12152	7106	Guide (sweat) Shank Rivet for 36724, 36730 and 36800.....
12242	7117	Rock Shaft Hanger with two wood screws 1 in. No. 10, for 23767.....
14063	7113	Machine Base Thumb Screw Spring (Accessories).....
14369	7117	Treadle Stand for 59083.....
15196	7110	Arm Side Cover.....
15196	7110	Cylinder Side Cover.....
*15404	—	Trade Mark for 59001.....
15405	—	" " Rivet for 59001.....
16532	7113	Arm Dowel Pin.....
17547	7112	Tension Thread Guide.....
17881	7121	Treadle Shaft for 59083.....
19068	7112	Thread Controller Bracket.....
19074	7112	" Guide (top of arm).....
19079	7116	Wrench for 1678 (Accessories).....
21332	7105	Feed Eccentric Pressure Spring Cap for 38590.....
*22343	—	Feed Eccentric Body for 38590.....
23767	7117	Rock Shaft complete for 59056, Nos. 2763 2770, 6336, 6337, 7125 and two 12242..
26151	7116	Screw Driver (large) Accessories.....
26485	7116	" " (small) Accessories.....
27739	7234	Thread Unwinder Thread Cone (wood) for large cones, for 225394.....

NO.	PLATE	NAME
34418	7111	Looper Washer for 59023.....
36722	7106	Guide (sweat) for 36724 and 36800.....
36723	7106	" " Shank for 36724.....
36724	7106	Guide complete, for hat sweats for straw hats, for 107-1 Machine, Nos. 36722, 36723 and two 12152.....
36725	7108	Guide (hat) for 36894 and 36895.....
36729	7107	" (sweat) for 36730.....
36730	7107	Guide (sweat) complete for 36895, Nos. 36729, 36731 and two 12152.....
36731	7107	Guide (sweat) Shank for 36730 and 36800
36800	7107	Guide (sweat) complete for 36894, Nos. 36722, 36731 and two 12152.....
36892	7108	Guide Holder for 36894 and 36895.....
36893	7107	" " Shank for 36894 and 36895
36894	—	Guide (hinged) complete, for sewing fitted hat sweats in men's straw hats, for 107-1 Machine, Nos. 1547J, 36725, 36800, 36892, 36893, 44209, 82445 and four 217J.....
36895	—	Guide (hinged) complete, for hat sweats for soft felt hats, for 107-1 Machine, Nos. 1547J, 36725, 36730, 36892, 36893, 44209, 82445 and four 217J.....
36971	7109	Hat Sweat Guide (lower) for 36973.....
36972	7109	" " " (upper) for 36973.....
36973	—	Hat Sweat Guide complete, for plain leather without reed or backing, for 107-1 Machine, Nos. 36971, 36972 and two 193F.....
*38589	—	Feed Eccentric for 38590.....
38590	7105	Feed Eccentric (adjustable) complete for 59073, Nos. 196F, 934J, 1103c, 21332, 22343, 38589, 61171 and two 51061c....
Nos. 41044 TO 41046 FOR 41047		
41044	7117	Table Support Base with three wood screws 1¼ in. No. 14.....
41045	7117	Table Support Top with two wood screws 1¼ in. No. 14.....
41046	7117	Table Support Tube.....
41047	—	Table Support Tube complete, Nos. 1726F and 41044 to 41046.....
42045	7105	Feed Lifting Eccentric Connection Arm Hinge Pin.....
*42059	—	Needle Bar Lever Connecting Rod Cap (upper) for 59029.....

NO.	PLATE	NAME
42074	7111	Needle Bar Lever Connecting Rod Ball Stud (upper).....
*42076	—	Needle Bar Lever Connecting Rod Cap (lower) for 59029.....
42077	7111	Needle Bar Lever Connecting Rod Guide
42088	7113	Machine Cushion (felt) for 59046.....
42532	7105	Feed Rock Shaft Collar with 457c.....
44209	—	Guide Holder Hinge Screw Stud 916c with 1560c, for 36894 and 36895.....
44209	—	Tension Screw Stud 916c with 1560c.....
50274c	7111	Looper Set Screw for 59016.....
51061c	7121	Feed Eccentric Body Set Screw for 38590
52045	7101	Arm Oil Tube Packing (cotton) for 11119
52045	7101	Cylinder Rotary Shaft Bushing (front) Packing (cotton).....
52045	7101	Cylinder Rotary Shaft Bushing (intermediate) Packing (cotton).....
52521	7115	Lifting Lever Spring for 59053 and 59056
54969	7101	Cylinder Rotary Shaft Flanged Bushing (back) Packing (braided cotton).....
55791	7101	Feed Dog Carrier Connecting Link.....
55791	7101	Needle Bar Connecting Link.....
55792	7101	Feed Dog Carrier Connecting Link Hinge Pin.....
55792	7101	Needle Bar Connecting Link Hinge Pin..
56864	7121	Chain Hook (large) for 6439.....
56865	7121	“ “ (small) for 6439.....
56865	7121	“ “ for 59055.....
*59001	—	Arm with 15404 and two 15405.....
59002	7100	Balance Wheel with 423c and 1354c.....
*59003	—	Cylinder.....
59004	7100	“ End Cover for 107-1 Machine...
59005	7100	“ Rotary Shaft.....
59006	7101	“ “ “ Bushing (front) ..
59007	7101	“ “ “ “ (intermediate).....
59008	7101	Cylinder Rotary Shaft Collar with two 454c.....
59009	7100	Cylinder Rotary Shaft Flanged Bushing (back).....
59010	7110	Face Plate with 2827.....
59011	7102	Feed Dog, 7 teeth, for straw hats, for 59043, for 107-1 Machine.....
59012	7103	Feed Dog, 6 teeth (10 teeth to the inch) for soft felt hats, for 59045, for 107-1 Machine.....
59013	7101	Feed Dog Carrier with 208F.....

NO.	PLATE	NAME
59014	7101	Feed Eccentric Connection with 59015 and two 1057E, for 59073.....
*59015	—	Feed Eccentric Connection Cap for 59014
59016	7105	“ Lifting Eccentric with 462c and 50274c.....
59017	7105	Feed Lifting Eccentric Connection with 171r and 59019.....
59018	7105	Feed Lifting Eccentric Connection Arm...
59019	7105	“ “ “ “ Gib for 59017.....
59020	7110	Feed Rock Shaft.....
59021	7105	“ “ “ Crank (back) with 1036c and 1375c.....
59022	7105	Feed Rock Shaft Crank (front) with 208F and two 1036c.....
59023	7111	Looper with 34418.....
59024	7110	Needle Bar (hollow).....
59025	7111	“ “ Bushing (lower) for 107-1 Machine.....
59026	7111	Needle Bar Bushing (upper).....
59027	7111	“ “ Connecting Bracket with 208F and 1057E.....
59028	7115	Needle Bar Lever with 208F and three 1036c.....
59029	7115	Needle Bar Lever Connecting Rod with 42059, 42076 and four 1057E.....
59030	7111	Needle Bar Lever Hinge Pin.....
59031	7111	“ “ “ “ “ Bushing.....
59032	7110	Presser Bar (hollow).....
59033	7111	“ “ Bushing.....
59034	7111	“ “ Guide and Lifting Bracket with 152E and 1485H.....
59035	7102	Presser Foot Guide for 59039.....
59036	7112	“ “ Hinge Pin for 59039, 59063 and 59071.....
59037	—	Presser Foot Plate for 59039.....
59038	—	“ “ Shank for 59039, 59063 and 59071.....
59039	7102	Presser Foot (hinged) complete for 59011, 59012, 59057 and 59059, for 107-1 Machine, Nos. 208r and 59035 to 59038
59040	7112	Thread Controller Guide Plate Stud for 59054.....
59041	7115	Thread Controller Releasing Rod.....
59042	7112	“ “ Spring.....

NO.	PLATE	NAME
59043	7102	Throat Plate with 59044 and two 1231b, for 59011 and 59057, for 107-1 Machine.....
59044	7102	Throat Plate Extension for 59043.....
59045	7103	" " for 59012, for 107-1 Machine.....
59046	7117	Machine Base with three wood screws 1¼ in. No. 12 and four each 935E, 4208S and 66707.....
Nos. 59047 TO 59050 FOR 59053 AND 59056		
59047	7115	Lifting Lever with 448c.....
59048	7113	" " Link.....
59049	7113	" " Pin.....
59050	7113	" " Stop.....
59053	—	Foot Lifter complete, Nos. 704c, 754c, 766b, 802b, 6439, 52521, 59047 to 59050 and 59083.....
59054	7112	Thread Controller Guide Plate with 59040.....
59055	—	Chain, length 18 in., with two 56865, for 59056.....
59056	—	Knee Lifter complete, for Stand, Nos. 704c, 754c, 766b, 802b, 23767, 52521, 59047 to 59050 and 59055.....
59057	7102	Feed Dog, 8 teeth, for Java hats, for 59043, for 107-1 Machine.....
59058	7110	Needle Bar (hollow) with 735f, for 107-1 Machine.....
59059	7103	Feed Dog, 8 teeth, for silk linings, etc., for 59060, for 107-1 Machine.....
59060	7103	Throat Plate for 59059, for 107-1 Machine.....
59061	7104	Feed Dog, 15 teeth, for velvet hats, for 59064, for 107-1 Machine.....
59062	—	Presser Foot Plate for 59063.....
59063	7104	Presser Foot (hinged) complete for 59061, for 107-1 Machine, Nos. 59036, 59038 and 59062.....
59064	7104	Throat Plate for 59061, for 107-1 Machine.....
59069	7118	Feed Dog, 17 teeth (16 teeth to the inch) for 59072, for 107-2 Machine.....
59070	—	Presser Foot Plate for 59071.....
59071	7118	Presser Foot (hinged) complete for 107-2 Machine, Nos. 59036, 59038 and 59070.....
59072	7118	Throat Plate for 59069, for 59080.....

NO.	PLATE	NAME
59073	—	Feed Eccentric Connection 59014 with 1373c, 1520c and 38590.....
59075	7120	Cylinder End Cover for 59076.....
59076	—	" " " 59075 with 59077 and two 158i, for 107-2 Machine.....
59077	7120	Cylinder End Cover Extension for 59076.....
59078	7119	Presser Bar Lifter for 107-2 Machine.....
59079	7119	Cylinder End Cover Support for 59080.....
59080	—	Throat Plate 59072 with 59079 and 217j, for 107-2 Machine.....
59081	7119	Needle Bar Bushing (lower) for 107-2 Machine.....
59082	7117	Treadle for 59083.....
59083	7117	Treadle complete for 59053, Nos. 4879, 14369, 17881, 59082 and two wood screws 1¼ in. No. 12.....
61171	7121	Feed Eccentric Pressure Spring for 38590.....
66707	7121	Machine Cushion Screw Washer for 59046.....
82445	7121	Guide Holder Spring for 36894 and 36895.....
120344	7116	Oiler (copper plated) with 120345 (Accessories).....
120345	7116	Oiler Spout, 5 in. long, for 120344.....
120380	7119	Guide for 107-2 Machine.....
200383c	7121	Thread Unwinder Spool Rest Rod Set Screw for 202490.....
201018c	7121	Thread Unwinder Spool Rest Set Screw for 225389.....
201696j	7121	Thread Unwinder Thread Guide Lock Nut for 225394.....
202490	3398	Thread Unwinder Spool Stand with 200383c, for 225394.....
225322	7121	Thread Unwinder Thread Guide Rod Washer for 225324.....
225324	3398	Thread Unwinder Thread Guide Rod with 208E and 225322, for 225394.....
225326	7121	Thread Unwinder Thread Guide Position Cup for 225394.....
Nos. 225388 TO 225391 FOR 225394		
225388	3398	Thread Unwinder Spool Rest Rod.....
225389	3398	" " " " with 201018c.....
225390	7234	" " " Thread Cone Holder for inverted cones.....
225391	3398	Thread Unwinder Thread Guide.....
225394	3398	Thread Unwinder complete, for one spool, Nos. 201696j, 202490, 225324, 225326, 225388, 225389, 225391 and three wood screws ⅞ in. No. 12.....

PLATE 3398—ONE-FOURTH SIZE

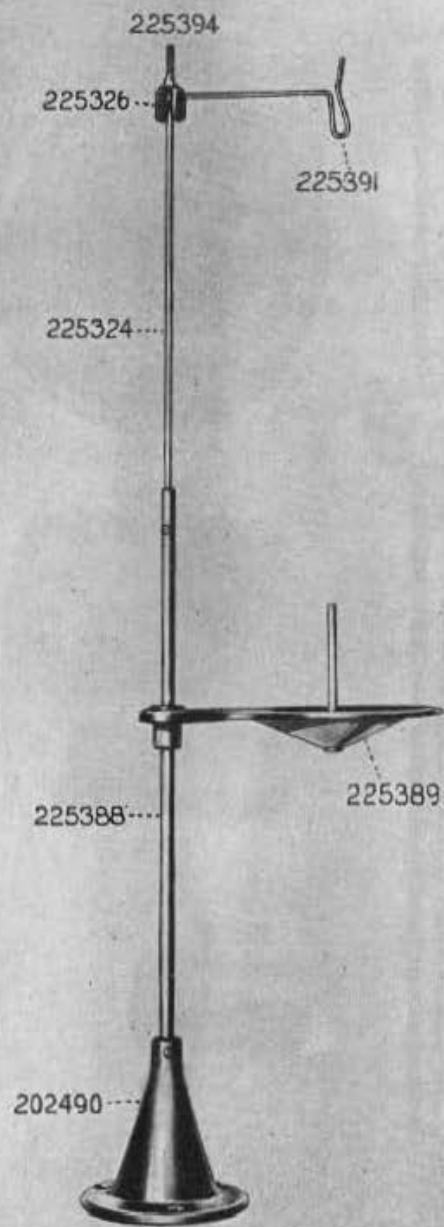


PLATE 7100—ONE-HALF SIZE

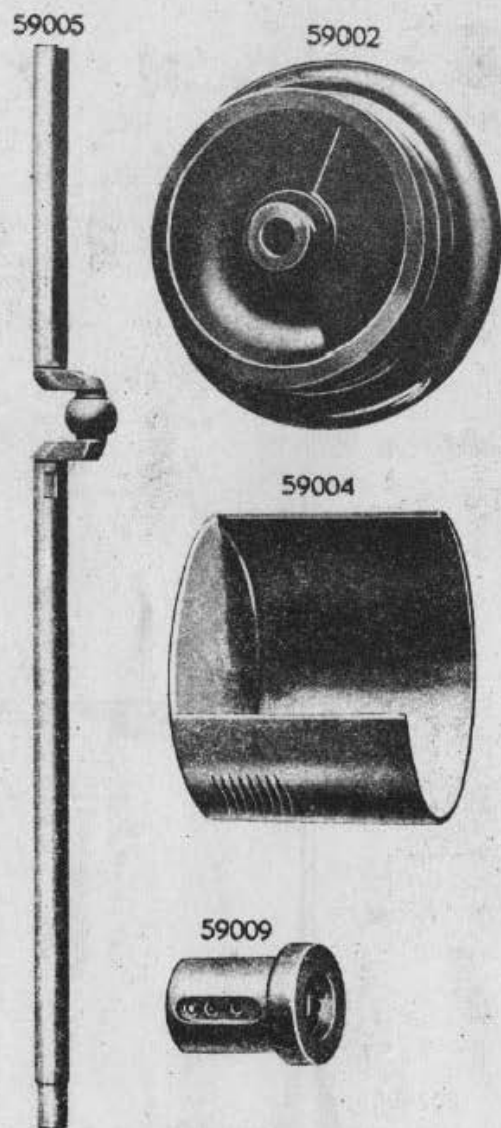


PLATE 7101—FULL SIZE

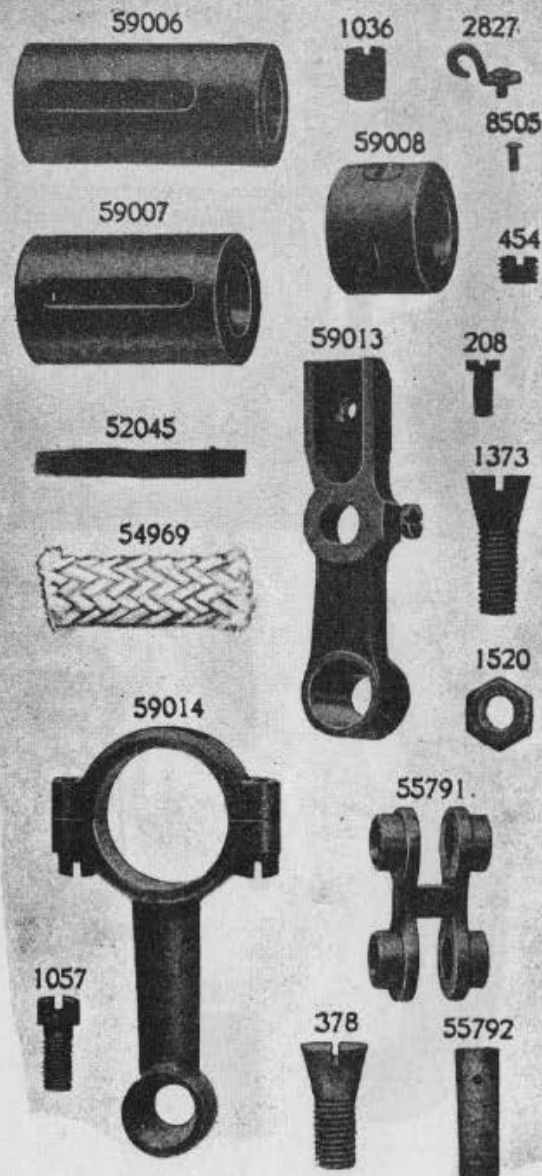
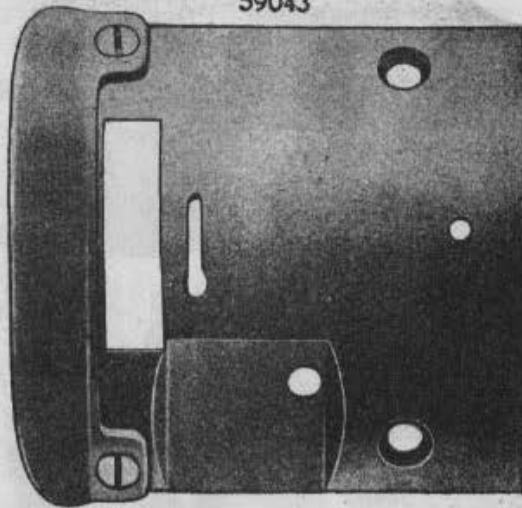
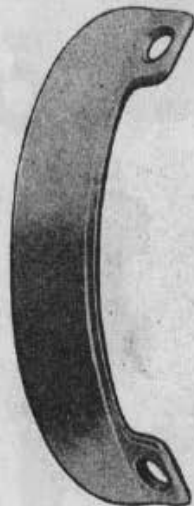


PLATE 7102—FULL SIZE

59043



59044



59011



1231



59039



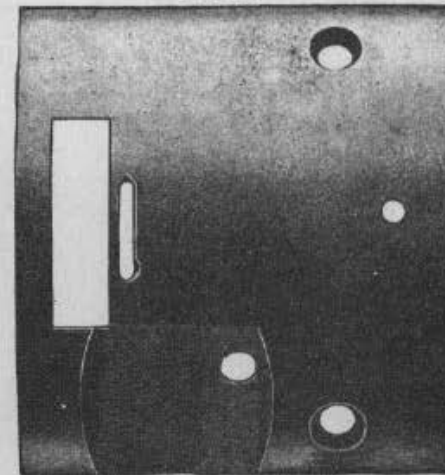
59035

59057



PLATE 7103—FULL SIZE

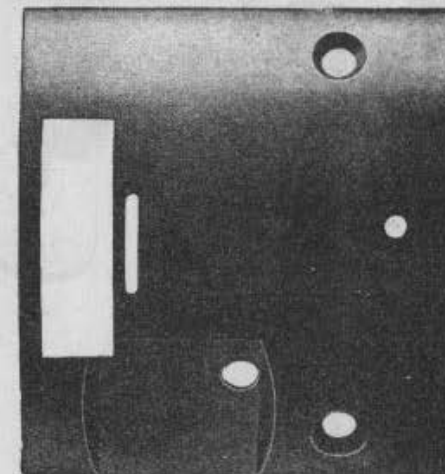
59045



59012



59060



59059

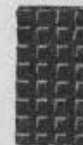


PLATE 7104—FULL SIZE

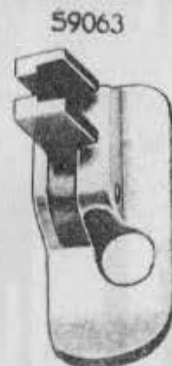
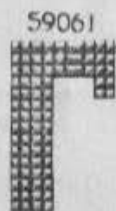
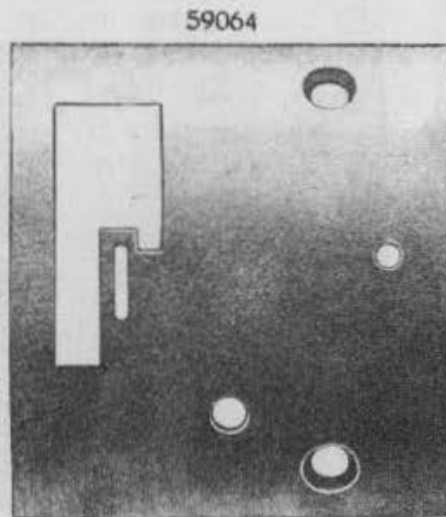


PLATE 7105—FULL SIZE



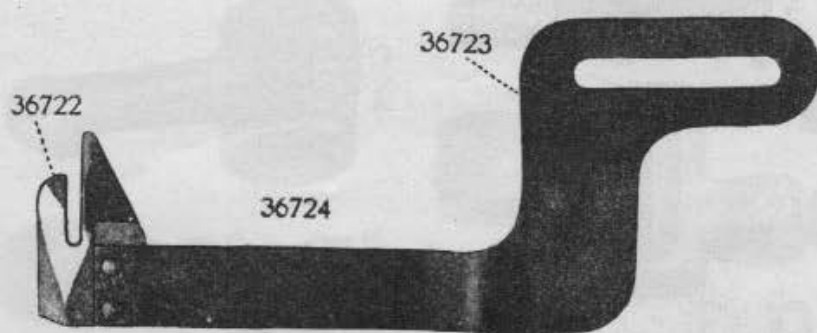


PLATE 7106—FULL SIZE

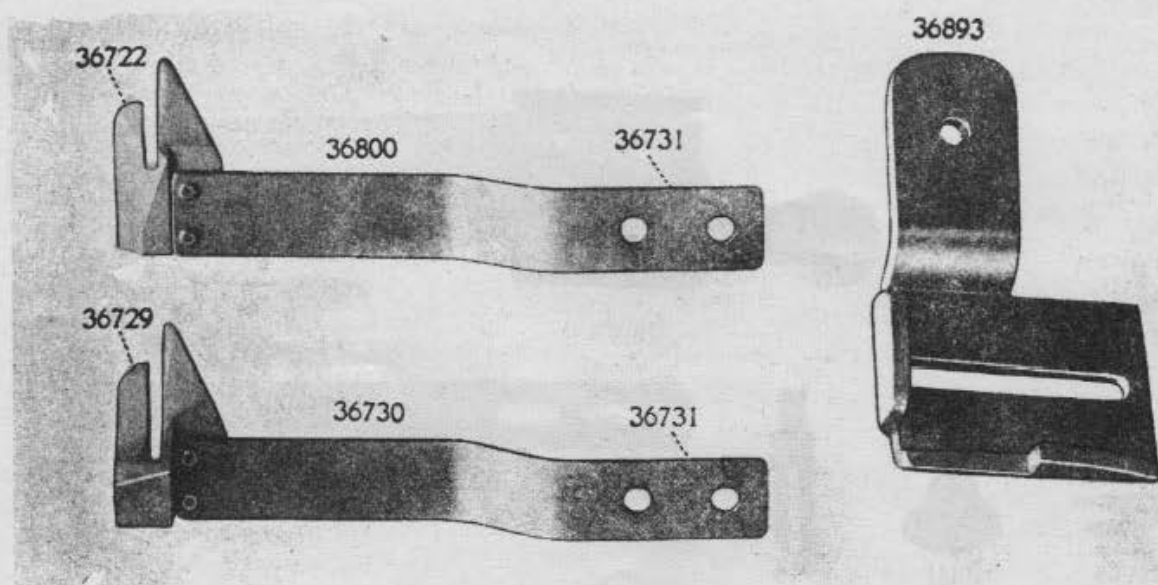


PLATE 7107—FULL SIZE

PLATE 7108—FULL SIZE

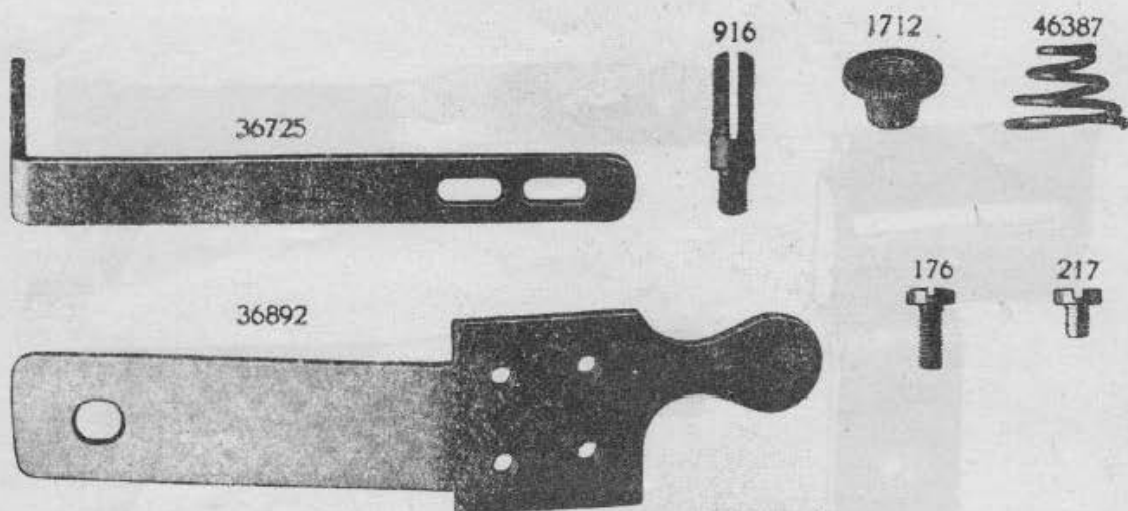


PLATE 7109—FULL SIZE

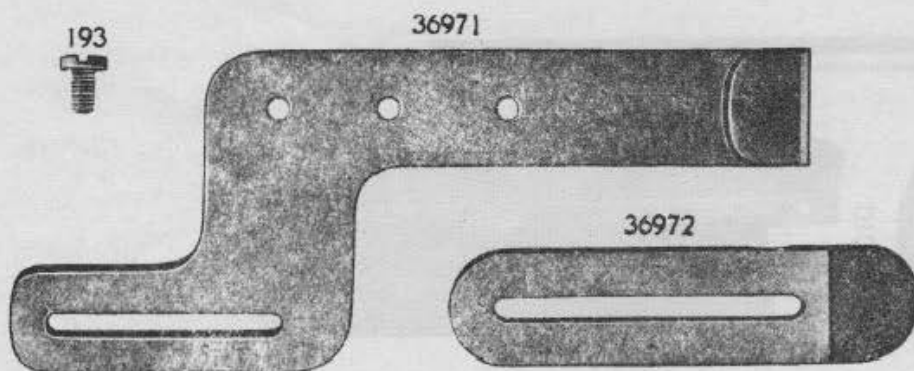


PLATE 7110—ONE-HALF SIZE

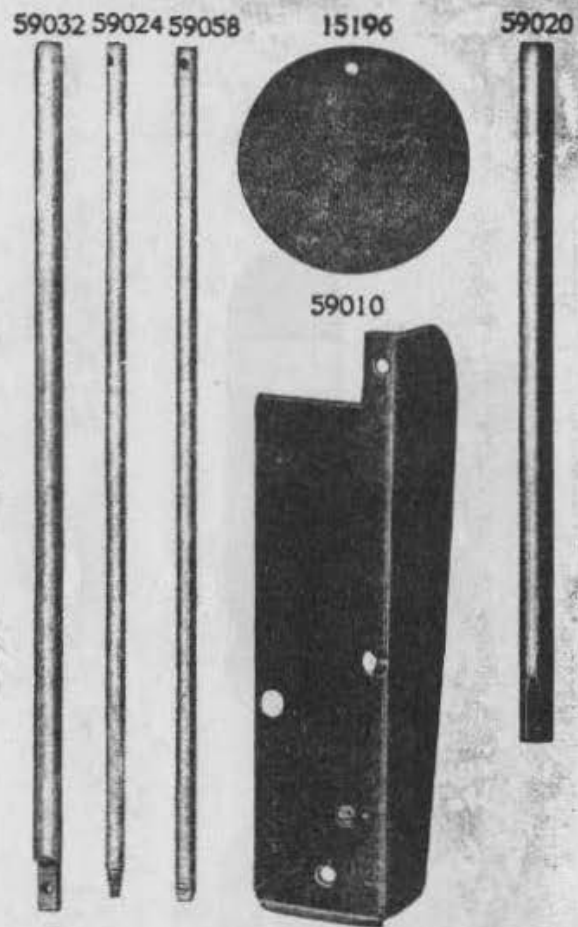


PLATE 7111—FULL SIZE

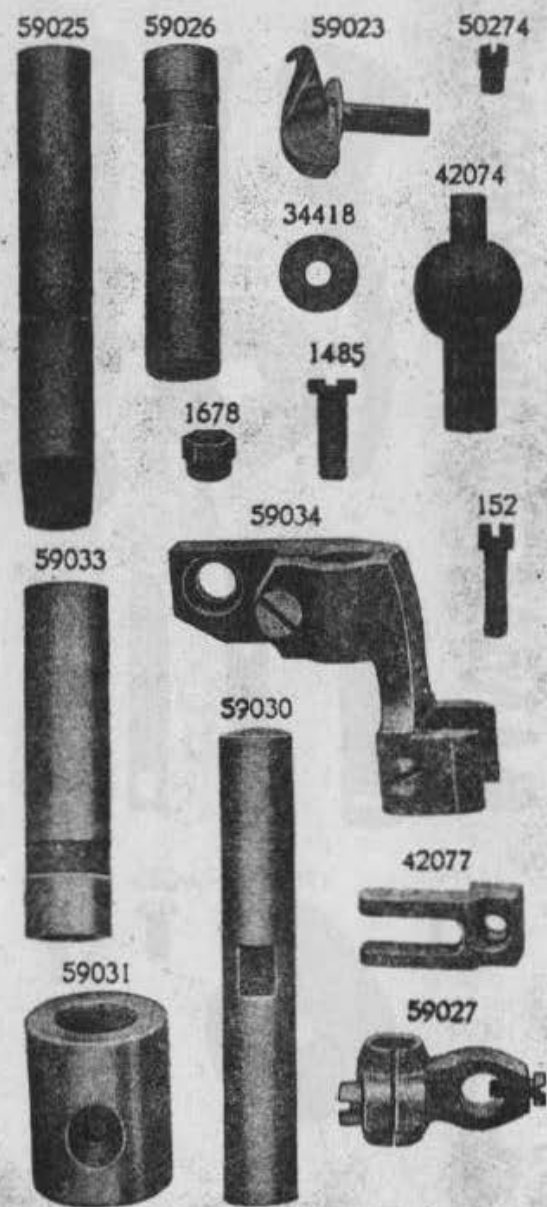


PLATE 7112—FULL SIZE

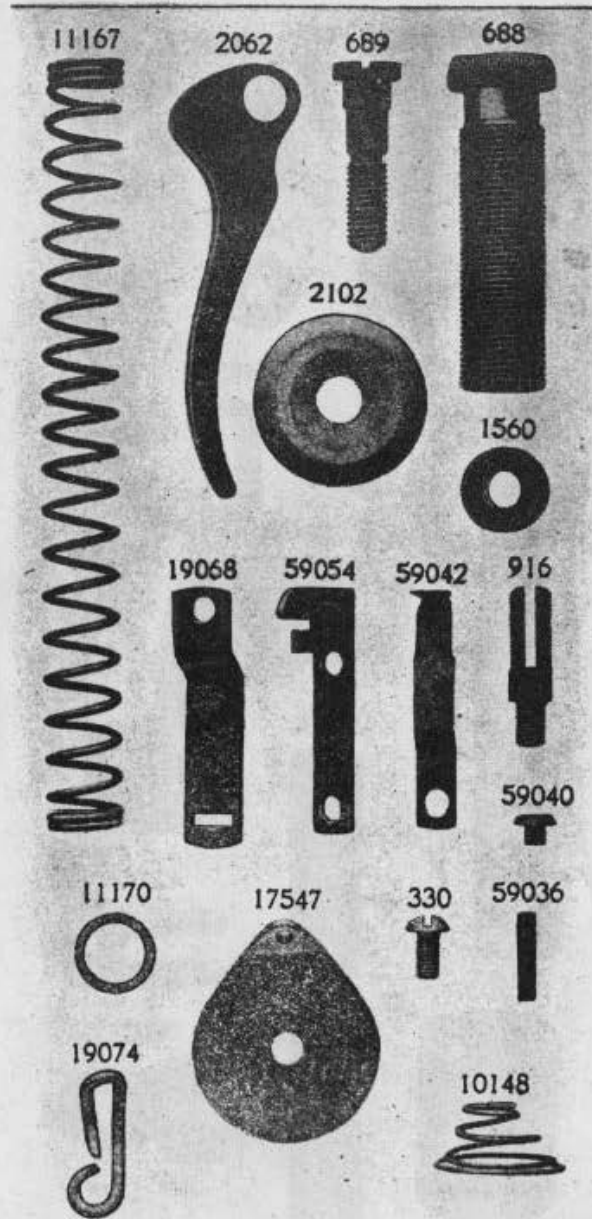


PLATE 7113—FULL SIZE

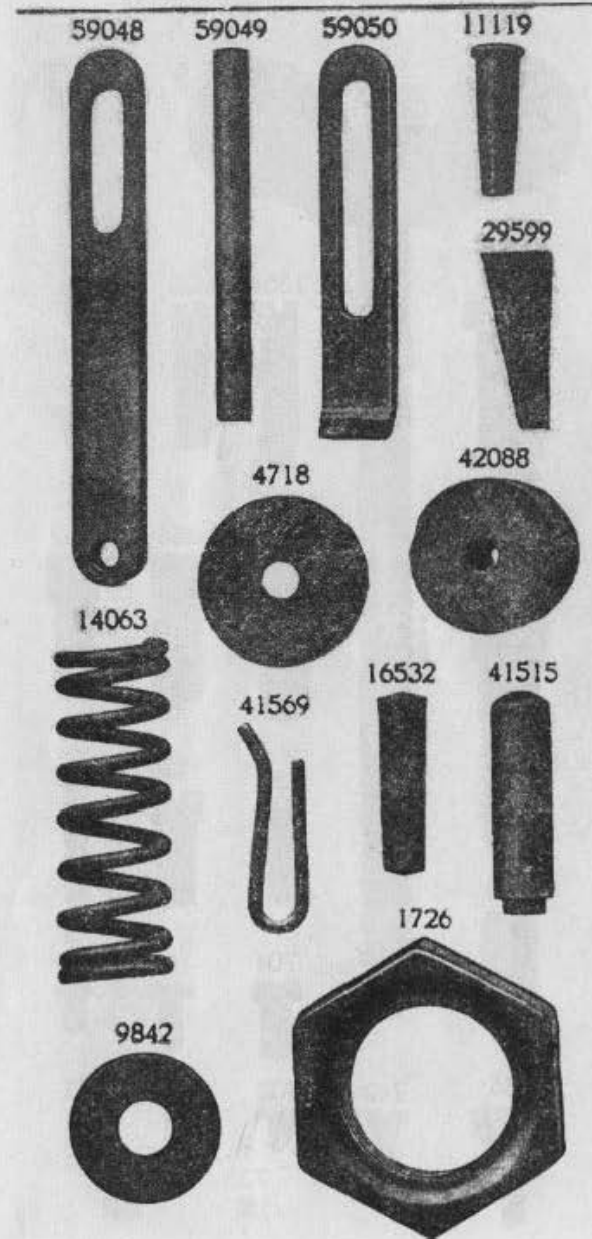


PLATE 7114—FULL SIZE

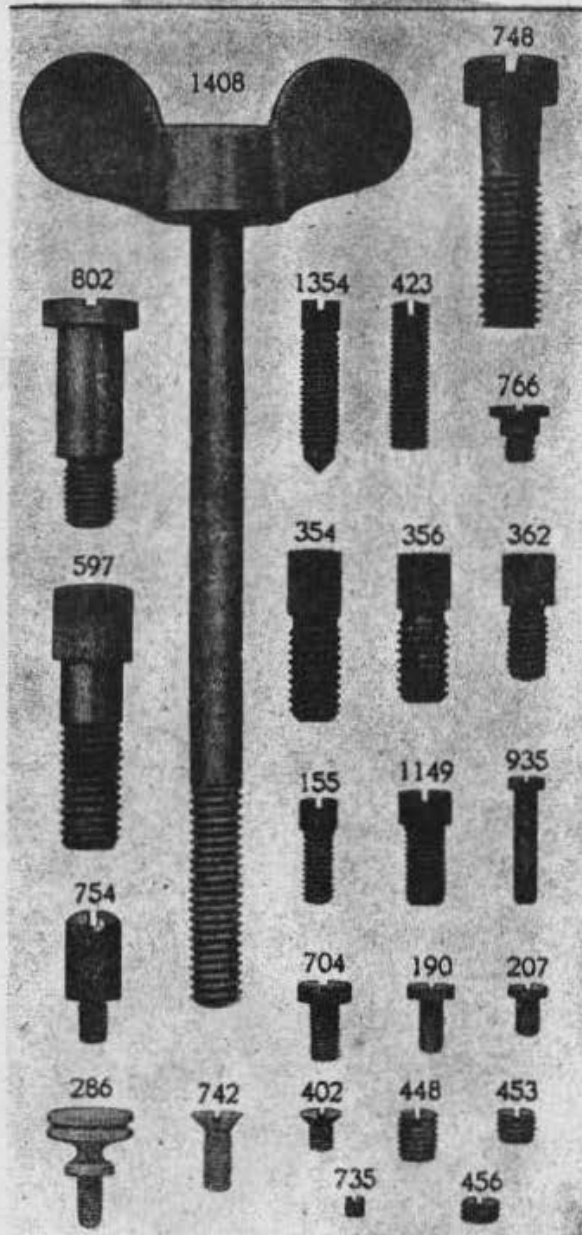


PLATE 7115—ONE-HALF SIZE



PLATE 7116—ONE-HALF SIZE



PLATE 7117—ONE-FOURTH SIZE

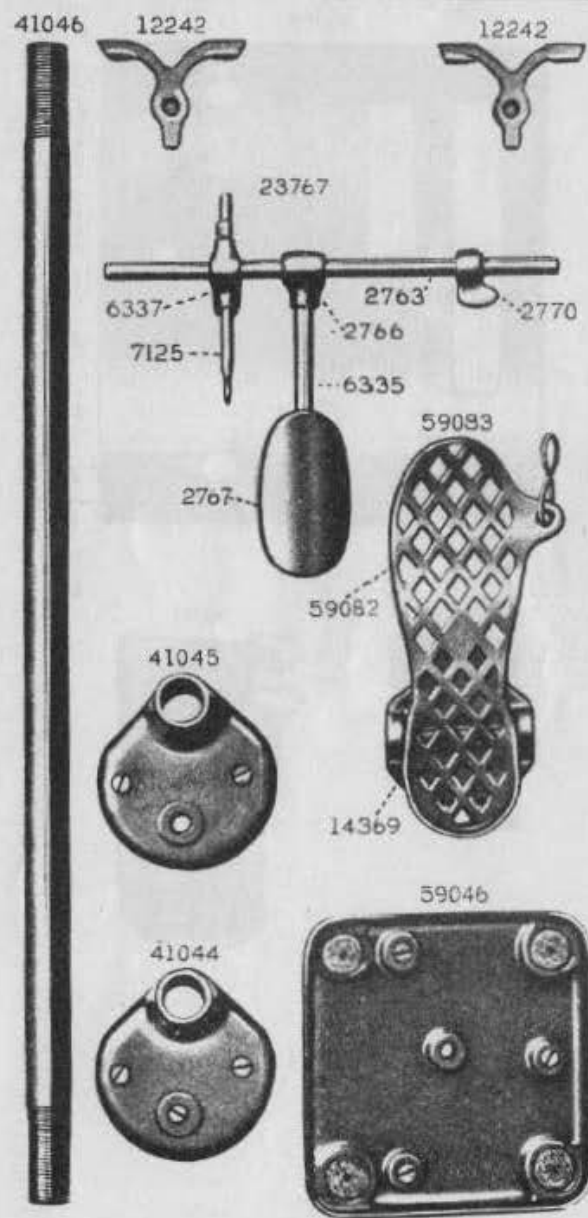
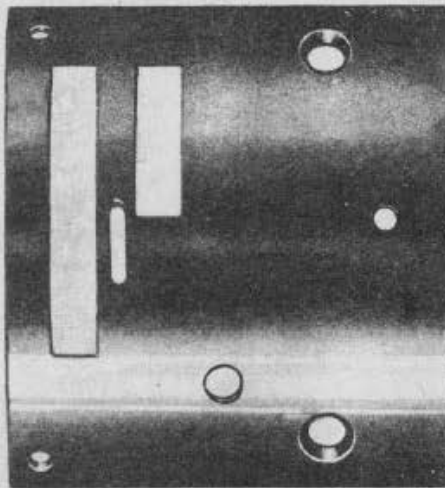
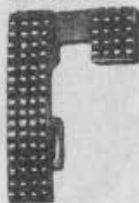


PLATE 7118—FULL SIZE

59072



59069



59071

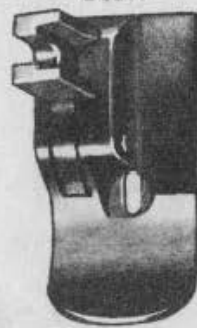
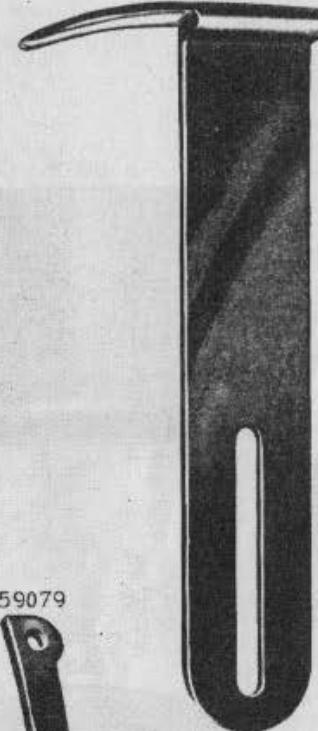


PLATE 7119—FULL SIZE

59078



120380



59081



59079



PLATE 7120—ONE-HALF SIZE



PLATE 7121—FULL SIZE

17881



56864



82445



66707



56865



225326



61171



PLATE 7234—ONE-HALF SIZE

27739



225390

