

Form 18164
Supersedes Form 8322
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LIST OF PARTS



MACHINE No. 81-6

THE SINGER MANUFACTURING COMPANY

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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 and Plated.
- B. Polished and Plated.
- C. Hardened only.
- D. Polished only.
- E. Soft, not Polished.
- F. Hardened and Polished.
- G.
- H. Blued.
- J. Plated only.
- K. Hardened and Plated.
- L. Brass or Gilt.
- M. Oxidized.
- P. Japanned.
- R. Merlized.
- T. Copper-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 and 50001 to 51500 are Screw Numbers.

1501 to 1800 are Nut Numbers.

1801 to 2000 are Roller Numbers.

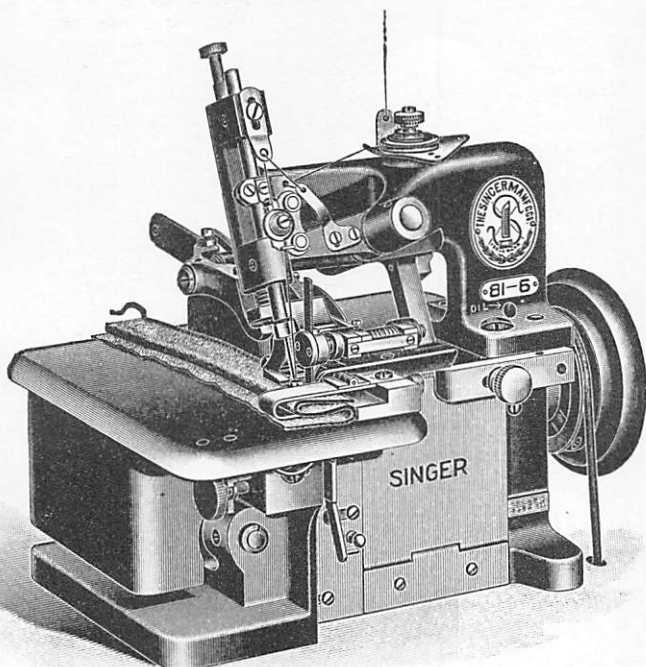
2001 to 50000 and 52001 and upward are numbers of Machine Parts.

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. 81-6

FOR TRIMMING, OVEREDGING AND BLIND STITCH HEMMING
OR WELTING IN KNIT UNDERWEAR. HAS AUXILIARY
FEED TO PREVENT FULLING OR "BELLING" THE EDGES
WHILE STITCHING. TWO-THREAD STITCH. FOOT LIFTER.

NO.	PLATE	NAME
*42251	—	Arm with two each 462c and 42253.....
4389	5585	" Dowel Pin.....
949E	5587	" Screw.....
42001	5576	Balance Wheel, 2 $\frac{3}{16}$ in. pulley, with 424c and 1354c.....
1354c	5587	Balance Wheel Position Screw.....
424c	5587	" " Set Screw.....

NO.	PLATE	NAME
42145	5577	Cloth Plate.....
42146	—	Cloth Plate complete, Nos. 42003, 42005, 42108, 42145, two 236c and five 229E..
42003	5577	Cloth Plate Extension (lower).....
229E	5587	" " " " Screw.....
42108	5577	" " " (upper).....
229E	5587	" " " " Screw.....
1437D	5587	" " Hinge Screw.....
1655E	5587	" " " " Nut.....
42005	5577	" " Lock Spring.....
236c	5587	" " " " Screw.....
42147	5557	Feed (back) Bar.....
61c	5557	" " " Hinge Screw.....
42148	5557	" " Connecting Link.....
1132c	5557	" " " " Hinge Screw
42149	5580	" " Dog, 3 teeth (16 teeth to the inch).....
203c	5587	Feed (back) Dog Screw.....
42150	5557	" " Regulator.....
1132c	5557	" " " Hinge Screw.....
190D	5557	" " " Set Screw.....
1444c	5557	" " " Thumb Screw....
42151	5557	" (front) Bar with 1253c.....
42007	5578	" " " Hinge Pin.....
1253c	5587	" " " " Set Screw....
42008	5578	" " Connecting Rod with 42009 and two 1057E.....
*42009	—	Feed (front) Connecting Rod Cap.....
1057E	5578	" " " " Screw..
1373c	5578	" " " " Hinge Screw
1520c	5578	" " " " " " "
		Nut.....
42182	5539	Feed (front) Dog, 17 teeth (16 teeth to the inch).....
190D	5557	Feed (front) Dog Screw.....
42011	5578	" " Eccentric with two 453c.....
42153	5577	" " " Cover.....
207F	5587	" " " " Screw.....
453c	5578	" " " Set Screw.....
42012	5578	" " Lifting Eccentric with two 462c.....
42013	5578	Feed (front) Lifting Eccentric Connection
462c	5544	" " " " Set Screw
1374c	5578	" " Regulating Screw Stud.....
1680c	5578	" " " " " Nut
42290	5578	" " " " " "
		Washer.....

NO.	PLATE	NAME
42014	5579	Feed (front) Regulator with 233D and two 1259c.....
42015	5578	Feed (front) Regulator Connection with 1012E.....
1012E	5578	Feed (front) Regulator Connection Adjusting Screw.....
1373c	5578	Feed (front) Regulator Connection Hinge Screw.....
1520c	5578	Feed (front) Regulator Connection Hinge Screw Nut.....
42016	5579	Feed (front) Regulator Hinge Stud.....
42017	5580	" " " Indicator.....
42018	5580	" " " " Plate
337D	5580	" " " " " Screw
207F	5587	" " " " " Screw....
1259c	5579	" " " " " Set Screw.....
233D	5579	" " " " " Stop Screw.....
42154	5557	" " " Rock Shaft.....
42155	—	Feed (front) Rock Shaft complete, Nos. 42021 and 42154.....
42021	5578	Feed (front) Rock Shaft Crank with 157E
157E	5578	" " " " " Clamping Screw.....
42098	5579	Feed (front) Rock Shaft Hinge Pin.....
42079	5579	" " " " " " Bushing
1036c	5569	" " " " " " " Set Screw.....
*42022	—	Frame.....
42023	5576	" Rotary Shaft.....
42024	5576	" " " " Bushing (front)....
1036c	5569	" " " " " " Set Screw.....
42025	5579	Frame Rotary Shaft Crank with 1259c and 1375c.....
1375c	5579	Frame Rotary Shaft Crank Position Screw
1259c	5579	" " " " " Set Screw....
42026	5576	" " " " Flanged Bushing (back) with 54967.....
54967	7403	Frame Rotary Shaft Flanged Bushing (back) Oil Pad (braided cotton).....
1036c	5569	Frame Rotary Shaft Flanged Bushing (back) Set Screw.....
42367	5585	Frame Rotary Shaft Front Bearing Oil Pad (braided cotton).....
42027	5577	Frame Side Cover (left) with 19045.....
19045	5585	" " " " " Handle.....
330D	5587	" " " " " Screw.....

NO.	PLATE	NAME
42028	5577	Frame Side Cover (right) hinged.....
42101	5580	" " " " Lock Spring.....
330D	5587	" " " " Screw.....
42029	5576	" Top Cover.....
42030	5580	" " " " Extension.....
42102	5582	" " " " Holder.....
283D	5582	" " " " " Thumb Screw.....
2749	5582	Frame Top Cover Extension Holder Thumb Screw Washer.....
176D	5580	Frame Top Cover Extension Screw.....
742F	5587	" " " " Screw.....
42111	5581	Knife (movable).....
NOTE: Two No. 42111 are sent with this machine		
42112	5581	Knife (movable) Gib.....
42035	5581	" " " " Holder.....
42113	—	" " " " 42035 with 133F, 42037, 42040, 42112 and two 404D.....
42037	5581	Knife (movable) Holder Cap.....
404D	5581	" " " " " Screw.....
42038	5581	" " " " Guide with 336F..
42039	5581	" " " " " Plate.....
621D	5581	" " " " " " Screw
336F	5581	" " " " " Set Screw..
133F	5581	" " " " " Screw.....
42040	5581	" " " " " Extension Pin.....
42041	5581	Knife (movable) Holder Spring.....
42042	5581	" " " " Lever.....
42043	5581	" " " " Connection with 42044 and two 175E.....
*42044	—	Knife (movable) Lever Connection Cap
175E	5581	" " " " " " " Screw.....
1373C	5578	Knife (movable) Lever Connection Hinge Screw.....
1520C	5578	Knife (movable) Lever Connection Hinge Screw Nut.....
42045	5582	Knife (movable) Lever Hinge Stud.....
1229C	5586	" " " " " " " Set Screw
42046	5580	" (stationary) with 42049.....
NOTE: Two No. 42046 are sent with this machine		
42048	5581	Knife (stationary) Clamping Stud.....
1534D	5581	" " " " " " " Thumb Nut.....

NO.	PLATE	NAME
42156	5580	Knife (stationary) Holder.....
1376c	5587	" " " Regulating Thumb Screw.....
1101c	5587	Knife (stationary) Holder Screw.....
440F	5580	" " " Stop Screw.....
1547D	5584	" " " " " Nut.
42049	5580	" " Stud.....
42114	5582	Looper (left hand).....
42051	5579	" " " Lever with 209H.....
42052	5579	" " " " Connecting Link
50562c	7396	" " " " " "
		Hinge Screw.....
1520c	5569	Looper (left hand) Lever Connecting Link Hinge Screw Nut.....
42053	5579	Looper (left hand) Lever Hinge Stud....
1036c	5569	" " " " " " Set Screw.....
209H	5579	Looper (left hand) Set Screw.....
42166	5582	" (right hand).....
42073	5582	" " " and Spreader Lever with 1259c.....
42074	5582	Looper (right hand) and Spreader Lever Ball Stud.....
1259c	5579	Looper (right hand) and Spreader Lever Ball Stud Set Screw.....
42075	5582	Looper (right hand) and Spreader Lever Connection with 42059, 42076 and four 896E.....
*42076	—	Looper (right hand) and Spreader Lever Connection Cap (lower).....
896E	7396	Looper (right hand) and Spreader Lever Connection Cap (lower) Screw.....
*42059	—	Looper (right hand) and Spreader Lever Connection Cap (upper).....
896E	7396	Looper (right hand) and Spreader Lever Connection Cap (upper) Screw.....
42077	5584	Looper (right hand) and Spreader Lever Connection Guide.....
171F	5544	Looper (right hand) and Spreader Lever Connection Guide Screw.....
42106	5584	Looper (right hand) and Spreader Lever Connection Oil Tube and Bracket with 29599.....
29599	5584	Looper (right hand) and Spreader Lever Connection Oil Tube Packing (felt)....
42078	5584	Looper (right hand) and Spreader Lever Hinge Pin.....

NO.	PLATE	NAME
42079	5579	Looper (right hand) and Spreader Lever Hinge Pin Bushing.....
1259c	5579	Looper (right hand) and Spreader Lever Hinge Pin Bushing Set Screw.....
197D	5582	Looper (right hand) Screw.....
42054	5544	Needle Bar.....
42253	5544	" " Bushing.....
462c	5544	" " " Set Screw.....
42061	5544	" " Connecting Bracket with 187D and 223F.....
187D	5544	Needle Bar Connecting Bracket Clamping Screw.....
42055	5544	Needle Bar Connecting Link.....
40247	5544	" " " " Hinge Pin...
223F	5544	" " " " " " Set Screw for 42061.....
904c	5544	Needle Bar Connecting Link Hinge Pin Set Screw for 42104.....
42057	5544	Needle Bar Connecting Rod with 42059, 42076 and four 896E.....
*42076	—	Needle Bar Connecting Rod Cap (lower)
896E	7396	" " " " " " " Screw.....
*42059	—	Needle Bar Connecting Rod Cap (upper)
896E	7396	" " " " " " " Screw.....
42077	5584	Needle Bar Connecting Rod Guide.....
171F	5544	" " " " " " Screw.
42103	5544	" " Crank (back) with 1258c and two 1259c.....
42074	5582	Needle Bar Crank (back) Ball Stud....
1259c	5579	" " " " " " Set Screw.....
1259c	5579	Needle Bar Crank (back) Position Screw..
1258c	5544	" " " " " Set Screw.....
42104	5544	" " " (front) with 904c, 1258c and 1259c.....
1259c	5579	Needle Bar Crank (front) Position Screw..
1258c	5544	" " " " " Set Screw.....
42105	5544	" " " Shaft.....
42115	5544	" " Thread Retainer Bracket.....
228D	5544	" " " " " Screw
10106	5544	" " " " " Disc.....
93c	5544	" " " " " Screw.....
10107	5544	" " " " " Spring.....
1629c	5544	" Clamping Nut.....
42066	5544	" Guard.....

NO.	PLATE	NAME
171F	5544	Needle Guard Screw.....
42183	—	Presser Foot Body.....
42184	5539	" " Chaining-off Finger.....
233D	5579	" " " " Screw...
9320	5585	" " Hinge Pin.....
42159	—	" " Plate.....
14058	5585	" " Spring.....
42160	5585	" " " Adjusting Pin.....
464C	5587	" " " " " Set Screw
42185	5539	Presser Foot (spring hinged) complete, Nos. 233D, 464C, 9320, 14058, 42159, 42160, 42183 and 42184.....
1324C	5587	Presser Foot Screw.....
39541	5586	" " " Washer.....
42069	5576	" Lever.....
42045	5582	" " Hinge Stud.....
1120C	5582	" " " " Set Screw.....
42070	5584	" " Lifter.....
85D	5584	" " " Hinge Screw
1377C	5584	" " Screw Stud (eccentric).....
1547D	5584	" " " " Nut.....
42071	5584	" " Spring.....
1378D	5584	Pressure Regulating Thumb Screw.....
42072	5584	Spreader.....
197D	5580	" Screw.....
2102	5585	Tension (looper, left hand) Disc.....
1560C	5585	" " " " Regulating Thumb Nut.....
828C	5585	Tension (looper, left hand) Screw Stud...
42121	5581	" " " " Spring.....
2102	5585	" (looper, right hand) Disc.....
1560C	5585	" " " " Regulating Thumb Nut.....
828C	5585	Tension (looper, right hand) Screw Stud...
10148	5585	" " " " Spring.....
17547	5585	" " " " Thread Guide
2102	5585	" (needle thread) Disc.....
1560C	5585	" " " Regulating Thumb Nut.....
916C	5585	Tension (needle thread) Screw Stud.....
10148	5585	" " " Spring.....
42082	5585	" " " Thread Guide...
42242	7396	Thread (looper, left hand) Eyelet.....
233D	5579	" " " " " Screw...
42084	5585	" " " " Tube.....
462C	5544	" " " " " Set Screw

NO.	PLATE	NAME
42093	5585	Thread (looper, right hand) Staple.....
190D	5557	" " " " " Screw ..
42127	5585	" " " " Take-up.....
197F	5580	" " " " Screw
42096	5585	" (needle) Eyelet.....
217F	5585	" " " Screw.....
42162	5580	" " Take-up.....
197F	5580	" " " Screw.....
42186	5539	Throat Plate for 42149 and 42182.....
42452	7403	" " " " " " for heavy work.....
742F	5587	Throat Plate Screw.....
42188	5539	Welt Guide (hinged).....
42187	5539	" " (solid).....
42189	5539	" " Holder.....
1209C	5539	" " " Screw.....
19044	5539	" " " " Washer.....
1117D	5539	" " Regulating Thumb Screw....
190D	5557	" " Screw.....

IRON BASE

NO.	PLATE	NAME
42086	5564	Machine Base with three wood screws 1¼ in. No. 12 and four each 935D, 4718, 42088 and 66707.....
4718	5586	Machine Base Cushion (felt).....
42088	5586	" Cushion (felt).....
935D	5586	" " Screw.....
66707	7403	" " " Washer.....

ACCESSORIES

NO.	PLATE	NAME
1407E	5563	Machine Base Thumb Screw, for 3 in. table
1408E	5563	" " " " " 2 in. table
14063	5586	" " " " Spring.....
9842	5586	" " " " Washer
120344	5566	Oiler (copper plated) with 120345.....
120345	5566	" Spout, 5 in. long.....
120440	5566	Screw Driver.....
42090	5566	Threading Wire.....
120341	5566	Tweezers (curved).....
42089	5566	Wrench for 1324, 1374 and 1629.....
8908	5566	" " 1520 and 1655.....
4822	5566	" " 1547.....

CHAIN CUTTER PARTS

NO.	PLATE	NAME
42410	7403	Chain Cutting Blade (lower).....
217D	5585	" " " " Screw.....
42411	7403	" " " (upper).....
217D	5585	" " " " Screw.....
42412	7401	Frame Top Cover.....
42413	7401	Lifting Lever.....
42414	—	Chain Cutter complete, Nos. 42410 to 42413 and four 217D.....

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	5566	Chain Connecting Link.....
56864	5566	" Hook (large).....
56865	7396	" " (small).....
42130	5586	Lifting Lever.....
42131	5586	" " Bracket.....
1229C	5586	" " " Screw.....
1301D	5586	" " Hinge Screw.....
42132	5586	" " Spring.....
1148F	5586	" " Stop Screw.....
1547D	5584	" " " " Nut.....
4881	5564	Treadle.....
4882	5566	" Shaft.....
4883	5566	" Spring.....
4884	5564	" Stand.....
4885	5564	Treadle complete, Nos. 4879, 4881 to 4884 and two wood screws 1 in. No. 16.....
42133	—	Foot Lifter complete, Nos. 1301D, 4885, 6439, 42130 to 42132 and two each 1148F, 1229C and 1547D.....

KNEE LIFTER PARTS

NO.	PLATE	NAME
42130	5586	Lifting Lever.....
42131	5586	" " Bracket.....
1229C	5586	" " " Screw.....
42142	5564	" " Connecting Rod.....
1301D	5586	" " Hinge Screw.....

KNEE LIFTER PARTS

NO.	PLATE	NAME
42132	5586	Lifting Lever Spring.....
1148F	5586	" " Stop Screw.....
1547D	5584	" " " " Nut.....
2763	5564	Rock Shaft.....
12242	5564	" " Hanger with two wood screws 1 in. No. 10.....
2765	5564	Rock Shaft Knee Arm.....
2766	5564	" " " " Hub with 356c....
356c	5587	" " " " Set Screw.....
2768	—	Rock Shaft Knee Arm complete, Nos. 2765 to 2767.....
2767	5564	Rock Shaft Knee Plate with 356c.....
356c	5587	" " " " Set Screw.....
6337	5564	" " Lifting Bracket with two 356c
7125	5564	" " " " Hook.....
356c	5587	" " " " Set Screw
356c	5587	" " " " Set Screw....
2770	5564	" " Stop Dog with 356c.....
356c	5587	" " " " Set Screw.....
42143	5564	Rock Shaft complete, Nos. 2763, 2768, 6337, 7125 and two each 2770 and 12242
42144	—	Knee Lifter complete, Nos. 1301D, 42130 to 42132, 42142, 42143 and two each 1148F, 1229c and 1547D.....

KNIFE GRINDER

NO.	PLATE	NAME
41326	5568	Emery Wheel.....
1508E	5569	" " Clamping Nut.....
41327	5568	" " Shaft.....
41328	5568	" " " Pulley with 1036c....
1036c	5569	" " " " Set Screw.....
41513	5569	" " Washer.....
41329	5567	Frame with 1036c.....
878D	5569	" Oil Hole Stop Screw.....
41330	5568	Knife Holder with two 14222.....
41331	5568	" " Bracket with 157E.....
157E	5569	" " " Clamping Screw....
42065	5569	" " " Hinge Stud.....
1036c	5569	" " " " Set Screw
717C	5569	" " " Stop Screw.....
1520E	5569	" " " " " Nut.....
41333	5569	" " Clamp.....
41334	5569	" " " Spring.....
14222	5569	" " " Steady Pin.....

NO.	PLATE	NAME
771D	5569	Knife Holder Clamp Thumb Screw.....
970D	5569	“ “ Regulating Thumb Screw...
313C	5569	“ “ Screw Centre.....
1519E	5569	“ “ “ “ Nut.....
41332	5569	“ “ Spring.....
41335	—	Knife Grinder complete, Nos. 717C, 970D, 1508E, 1520E, 41326 to 41332, 42065, two each 313C, 771D, 878D, 1519E, 41333, 41334, 41513 and three wood screws 1¼ in. No. 12.....

THREAD UNWINDER

FOR THREE SPOOLS

NO.	PLATE	NAME
225389	7165	Spool Rest (for one spool) with 201018C...
225395	7165	“ “ (for two spools) with 201018C...
225388	7165	“ “ Rod.....
200383C	7396	“ “ “ Set Screw.....
201018C	7396	“ “ Set Screw.....
202490	7165	“ Stand with 200383C.....
225391	7165	Thread Guide.....
201696J	7396	“ “ Lock Nut.....
225392	7165	“ “ Rod with 208E and 225393
208E	5587	“ “ “ Screw.....
225393	7396	“ “ “ Washer.....
225397	7165	Thread Unwinder complete, Nos. 201696J, 202490, 225388, 225389, 225392, 225395, three 225391 and wood screws ⅞ in. No. 13.....
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, 225397

OBSOLETE PARTS

NO.	PLATE	NAME
378c	5579	Looper (left hand) Lever Connecting Link Hinge Screw.....
42091	5584	Looper (right hand) use 42166.....
1057E	5578	“ “ “ and Spreader Lever Connection Cap (lower) Screw for 42075
1057E	5578	Looper (right hand) and Spreader Lever Connection Cap (upper) Screw for 42075
1057E	5578	Needle Bar Connecting Rod Cap (lower) Screw for 42057.....
1057E	5578	Needle Bar Connecting Rod Cap (upper) Screw for 42057.....
42083	5585	Thread (looper, left hand) Eyelet, use 42242.....
42092	5585	Thread (looper, right hand) Eyelet, use 42127.....

NUMERICAL
LIST
OF PARTS

NUMERICAL LIST OF PARTS

NO. PLATE	NAME
61c 5557	Feed (back) Bar Hinge Screw.....
85d 5584	Presser Lever Lifter Hinge Screw.....
93c 5544	Needle Bar Thread Retainer Screw.....
133F 5581	Knife (movable) Holder Screw for 42113..
157E 5578	Feed (front) Rock Shaft Crank Clamping Screw for 42021.....
157E 5569	Knife Grinder Knife Holder Bracket Clamping Screw for 41331.....
171F 5544	Looper (right hand) and Spreader Lever Connection Guide Screw.....
171F 5544	Needle Bar Connecting Rod Guide Screw
171F 5544	“ Guard Screw.....
175E 5581	Knife (movable) Lever Connection Cap Screw for 42043.....
176d 5580	Frame Top Cover Extension Screw.....
187d 5544	Needle Bar Connecting Bracket Clamping Screw for 42061.....
190d 5557	Feed (back) Regulator Set Screw.....
190d 5557	“ (front) Dog Screw.....
190d 5557	Thread (looper, right hand) Staple Screw
190d 5557	Welt Guide Screw.....
197d 5582	Looper (right hand) Screw.....
197d 5580	Spreader Screw.....
197F 5580	Thread (looper, right hand) Take-up Screw
197F 5580	“ (needle) Take-up Screw.....
203c 5587	Feed (back) Dog Screw.....
207F 5587	“ (front) Eccentric Cover Screw.....
207F 5587	“ “ Regulator Indicator Screw..
208E 5587	Thread Unwinder Thread Guide Rod Screw for 225392.....
209H 5579	Looper (left hand) Set Screw for 42051...
217d 5585	Chain Cutting Blade (lower) Screw for 42414.....
217d 5585	Chain Cutting Blade (upper) Screw for 42414.....
217F 5585	Thread (needle) Eyelet Screw.....
223F 5544	Needle Bar Connecting Link Hinge Pin Set Screw for 42061.....
228d 5544	Needle Bar Thread Retainer Bracket Screw.....
229E 5587	Cloth Plate Extension (lower) Screw for 42146.....

NO.	PLATE	NAME
229E	5587	Cloth Plate Extension (upper) Screw for 42146.....
233D	5579	Feed (front) Regulator Stop Screw for 42014.....
233D	5579	Presser Foot Chaining-off Finger Screw for 42185.....
233D	5579	Thread (looper, left hand) Eyelet Screw..
236c	5587	Cloth Plate Lock Spring Screw for 42146..
283D	5582	Frame Top Cover Extension Holder Thumb Screw.....
313c	5569	Knife Grinder Knife Holder Screw Centre for 41335.....
330D	5587	Frame Side Cover (left) Screw.....
330D	5587	“ “ “ (right) Screw.....
336F	5581	Knife (movable) Holder Guide Set Screw for 42038.....
337D	5580	Feed (front) Regulator Indicator Plate Screw.....
356c	5587	Rock Shaft Knee Arm Hub Set Screw for 2766.....
356c	5587	Rock Shaft Knee Plate Set Screw for 2767
356c	5587	“ “ Lifting Bracket Hook Set Screw for 6337.....
356c	5587	Rock Shaft Lifting Bracket Set Screw for 6337.....
356c	5587	Rock Shaft Stop Dog Set Screw for 2770..
378c	5579	Looper (left hand) Lever Connecting Link Hinge Screw, obsolete.....
404D	5581	Knife (movable) Holder Cap Screw for 42113.....
424c	5587	Balance Wheel Set Screw for 42001.....
440F	5580	Knife (stationary) Holder Stop Screw....
453c	5578	Feed (front) Eccentric Set Screw for 42011
462c	5544	“ “ Lifting Eccentric Set Screw for 42012.....
462c	5544	Needle Bar Bushing Set Screw for 42251..
462c	5544	Thread (looper, left hand) Tube Set Screw
464c	5587	Presser Foot Spring Adjusting Pin Set Screw for 42185.....
621D	5581	Knife (movable) Holder Guide Plate Screw
717c	5569	“ Grinder Knife Holder Bracket Stop Screw for 41335.....
742F	5587	Frame Top Cover Screw.....
742F	5587	Throat Plate Screw.....
771D	5569	Knife Grinder Knife Holder Clamp Thumb Screw for 41335.....

NO.	PLATE	NAME
828c	5585	Tension (looper, left hand) Screw Stud....
828c	5585	“ (looper, right hand) Screw Stud...
878D	5569	Knife Grinder Frame Oil Hole Stop Screw for 41335.....
896E	7396	Looper (right hand) and Spreader Lever Connection Cap (lower) Screw for 42075
896E	7396	Looper (right hand) and Spreader Lever Connection Cap (upper) Screw for 42075
896E	7396	Needle Bar Connecting Rod Cap (lower) Screw for 42057.....
896E	7396	Needle Bar Connecting Rod Cap (upper) Screw for 42057.....
904c	5544	Needle Bar Connecting Link Hinge Pin Set Screw for 42104.....
916c	5585	Tension (needle thread) Screw Stud.....
935D	5586	Machine Cushion Screw for 42086.....
949E	5587	Arm Screw.....
970D	5569	Knife Grinder Knife Holder Regulating Thumb Screw for 41335.....
1012E	5578	Feed (front) Regulator Connection Ad- justing Screw for 42015.....
1036c	5569	Feed (front) Rock Shaft Hinge Pin Bush- ing Set Screw.....
1036c	5569	Frame Rotary Shaft Bushing (front) Set Screw.....
1036c	5569	Frame Rotary Shaft Flanged Bushing (back) Set Screw.....
1036c	5569	Knife Grinder Emery Wheel Shaft Pulley Set Screw for 41328.....
1036c	5569	Knife Grinder Knife Holder Bracket Hinge Stud Set Screw for 41329.....
1036c	5569	Looper (left hand) Lever Hinge Stud Set Screw.....
1057E	5578	Feed (front) Connecting Rod Cap Screw for 42008.....
1057E	5578	Looper (right hand) and Spreader Lever Connection Cap (lower) Screw for 42075, obsolete.....
1057E	5578	Looper (right hand) and Spreader Lever Connection Cap (upper) Screw for 42075, obsolete.....
1057E	5578	Needle Bar Connecting Rod Cap (lower) Screw for 42057, obsolete.....
1057E	5578	Needle Bar Connecting Rod Cap (upper) Screw for 42057, obsolete.....
1101c	5587	Knife (stationary) Holder Screw.....
1117D	5539	Welt Guide Regulating Thumb Screw.....

NO.	PLATE	NAME
1120c	5582	Presser Lever Hinge Stud Set Screw.....
1132c	5557	Feed (back) Connecting Link Hinge Screw
1132c	5557	“ “ Regulator Hinge Screw.....
1148F	5586	Lifting Lever Stop Screw for 42133 and 42144.....
1209c	5539	Welt Guide Holder Screw.....
1229c	5586	Knife (movable) Lever Hinge Stud Set Screw.....
1229c	5586	Lifting Lever Bracket Screw for 42133 and 42144.....
1253c	5587	Feed (front) Bar Hinge Pin Set Screw for 42151.....
1258c	5544	Needle Bar Crank (back) Set Screw for 42103.....
1258c	5544	Needle Bar Crank (front) Set Screw for 42104.....
1259c	5579	Feed (front) Regulator Set Screw for 42014
1259c	5579	Frame Rotary Shaft Crank Set Screw for 42025.....
1259c	5579	Looper (right hand) and Spreader Lever Ball Stud Set Screw for 42073.....
1259c	5579	Looper (right hand) and Spreader Lever Hinge Pin Bushing Set Screw.....
1259c	5579	Needle Bar Crank (back) Ball Stud Set Screw for 42103.....
1259c	5579	Needle Bar Crank (back) Position Screw for 42103.....
1259c	5579	Needle Bar Crank (front) Position Screw for 42104.....
1301D	5586	Lifting Lever Hinge Screw for 42133 and 42144.....
1324c	5587	Presser Foot Screw.....
1354c	5587	Balance Wheel Position Screw for 42001..
1373c	5578	Feed (front) Connecting Rod Hinge Screw
1373c	5578	“ “ Regulator Connection Hinge Screw.....
1373c	5578	Knife (movable) Lever Connection Hinge Screw.....
1374c	5578	Feed (front) Regulating Screw Stud.....
1375c	5579	Frame Rotary Shaft Crank Position Screw for 42025.....
1376c	5587	Knife (stationary) Holder Regulating Thumb Screw.....
1377c	5584	Presser Lever Screw Stud (eccentric).....
1378D	5584	Pressure Regulating Thumb Screw.....
1407E	5563	Machine Base Thumb Screw, for 3 in. table (Accessories).....

NO.	PLATE	NAME
1408E	5563	Machine Base Thumb Screw, for 2 in. table (Accessories).....
1437D	5587	Cloth Plate Hinge Screw.....
1444C	5557	Feed (back) Regulator Thumb Screw.....
1508E	5569	Knife Grinder Emery Wheel Clamping Nut for 41335.....
1519E	5569	Knife Grinder Knife Holder Screw Centre Nut for 41335.....
1520C	5578	Feed (front) Connecting Rod Hinge Screw Nut.....
1520C	5578	Feed (front) Regulator Connection Hinge Screw Nut.....
1520E	5569	Knife Grinder Knife Holder Bracket Stop Screw Nut for 41335.....
1520C	5578	Knife (movable) Lever Connection Hinge Screw Nut.....
1520C	5569	Looper (left hand) Lever Connecting Link Hinge Screw Nut.....
1534D	5581	Knife (stationary) Clamping Stud Thumb Nut.....
1547D	5584	Knife (stationary) Holder Stop Screw Nut
1547D	5584	Lifting Lever Stop Screw Nut for 42133 and 42144.....
1547D	5584	Presser Lever Screw Stud Nut.....
1560C	5585	Tension (looper, left hand) Regulating Thumb Nut.....
1560C	5585	Tension (looper, right hand) Regulating Thumb Nut.....
1560C	5585	Tension (needle thread) Regulating Thumb Nut.....
1629C	5544	Needle Clamping Nut.....
1655E	5587	Cloth Plate Hinge Screw Nut.....
1680C	5578	Feed (front) Regulating Screw Stud Nut..
2102	5585	Tension (looper, left hand) Disc.....
2102	5585	“ (looper, right hand) Disc.....
2102	5585	“ (needle thread) Disc.....
2749	5582	Frame Top Cover Extension Holder Thumb Screw Washer.....
2763	5564	Rock Shaft for 42143.....

Nos. 2765 TO 2767 FOR 2768

2765	5564	Rock Shaft Knee Arm.....
2766	5564	“ “ “ “ Hub with 356c.....
2767	5564	“ “ “ Plate with 356c.....
2768	—	Rock Shaft Knee Arm complete for 42143, Nos. 2765 to 2767.....
2770	5564	Rock Shaft Stop Dog with 356c, for 42143

NUMERICAL LIST OF PARTS

NO.	PLATE	NAME
4389	5585	Arm Dowel Pin.....
4718	5586	Machine Base Cushion (felt) for 42086...
4822	5566	Wrench for 1547 (Accessories).....
4879	5566	Chain Connecting Link for 4885.....

Nos. 4881 to 4884 FOR 4885

4881	5564	Treadle.....
4882	5566	“ Shaft.....
4883	5566	“ Spring.....
4884	5564	“ Stand.....
4885	5564	Treadle complete for 42133, Nos. 4879, 4881 to 4884 and two wood screws 1 in. No. 16.....
6337	5564	Rock Shaft Lifting Bracket with two 356c, for 42143.....
6439	—	Chain, 36 in. to 45 in., with 56864 and 56865, for 42133.....
7125	5564	Rock Shaft Lifting Bracket Hook for 42143
8908	5566	Wrench for 1520 and 1655 (Accessories)..
9320	5585	Presser Foot Hinge Pin for 42185.....
9842	5586	Machine Base Thumb Screw Spring Washer (Accessories).....
10106	5544	Needle Bar Thread Retainer Disc.....
10107	5544	“ “ “ “ Spring.....
10148	5585	Tension (looper, right hand) Spring.....
10148	5585	“ (needle thread) Spring.....
12242	5564	Rock Shaft Hanger with two wood screws 1 in. No. 10, for 42143.....
14058	5585	Presser Foot Spring for 42185.....
14063	5586	Machine Base Thumb Screw Spring (Ac- cessories).....
14222	5569	Knife Grinder Knife Holder Clamp Steady Pin for 41330.....
17547	5585	Tension (looper, right hand) Thread Guide
19044	5539	Welt Guide Holder Screw Washer.....
19045	5585	Frame Side Cover (left) Handle for 42027
27739	7234	Thread Cone (wood) for large cones, for 225397.....
29599	5584	Looper (right hand) and Spreader Lever Connection Oil Tube Packing (felt) for 42106.....
39541	5586	Presser Foot Screw Washer.....
40247	5544	Needle Bar Connecting Link Hinge Pin..

Nos. 41326 to 41334 FOR 41335

41326	5568	Knife Grinder Emery Wheel.....
41327	5568	“ “ “ “ Shaft.....

NO.	PLATE	NAME
41328	5568	Knife Grinder Emery Wheel Shaft Pulley with 1036c.....
41329	5567	Knife Grinder Frame with 1036c.....
41330	5568	" " Knife Holder with two 14222.....
41331	5568	Knife Grinder Knife Holder Bracket with 157E.....
41332	5569	Knife Grinder Knife Holder Spring.....
41333	5569	" " " " Clamp.....
41334	5569	" " " " " Spring
41335	—	Knife Grinder complete for 42046 and 42111, Nos. 717c, 970D, 1508E, 1520E, 41326 to 41332, 42065, two each 313c, 771D, 878D, 1519E, 41333, 41334, 41513 and three wood screws 1¼ in. No. 12..
41513	5569	Knife Grinder Emery Wheel Washer for 41335.....
42001	5576	Balance Wheel, 2 $\frac{3}{16}$ in. pulley, with 424c and 1354c.....
42003	5577	Cloth Plate Extension (lower) for 42146..
42005	5577	" " Lock Spring for 42146.....
42007	5578	Feed (front) Bar Hinge Pin.....
42008	5578	" " Connecting Rod with 42009 and two 1057E.....
*42009	—	Feed (front) Connecting Rod Cap for 42008.....
42011	5578	Feed (front) Eccentric with two 453c.....
42012	5578	" " Lifting Eccentric with two 462c.....
42013	5578	Feed (front) Lifting Eccentric Connection
42014	5579	" " Regulator with 233D and two 1259c.....
42015	5578	Feed (front) Regulator Connection with 1012E.....
42016	5579	Feed (front) Regulator Hinge Stud.....
42017	5580	" " " Indicator.....
42018	5580	" " " " Plate....
42021	5578	" " Rock Shaft Crank with 157E, for 42155.....
*42022	—	Frame.....
42023	5576	" Rotary Shaft.....
42024	5576	" " " Bushing (front).....
42025	5579	" " " Crank with 1259c and 1375c.....
42026	5576	Frame Rotary Shaft Flanged Bushing (back) with 54967.....

NUMERICAL LIST OF PARTS

NO.	PLATE	NAME
42027	5577	Frame Side Cover (left) with 19045.....
42028	5577	“ “ “ (right) hinged.....
42029	5576	“ Top Cover.....
42030	5580	“ “ “ Extension.....
42035	5581	Knife (movable) Holder for 42113.....
42037	5581	“ “ “ Cap for 42113....
42038	5581	“ “ “ Guide with 336F..
42039	5581	“ “ “ “ Plate.....
42040	5581	“ “ “ Screw Extension Pin for 42113.....
42041	5581	Knife (movable) Holder Spring.....
42042	5581	“ “ Lever.....
42043	5581	“ “ “ Connection with 42044 and two 175E.....
*42044	—	Knife (movable) Lever Connection Cap for 42043.....
42045	5582	Knife (movable) Lever Hinge Stud.....
42045	5582	Presser Lever Hinge Stud.....
42046	5580	Knife (stationary) with 42049.....
42048	5581	“ “ Clamping Stud.....
42049	5580	“ “ Stud for 42046.....
42051	5579	Looper (left hand) Lever with 209H.....
42052	5579	“ “ “ “ Connecting Link
42053	5579	“ “ “ “ Hinge Stud.....
42054	5544	Needle Bar.....
42055	5544	“ “ Connecting Link.....
42057	5544	“ “ “ Rod with 42059, 42076 and four 896E.....
*42059	—	Looper (right hand) and Spreader Lever Connection Cap (upper) for 42075....
*42059	—	Needle Bar Connecting Rod Cap (upper) for 42057.....
42061	5544	Needle Bar Connecting Bracket with 187D and 223F.....
42065	5569	Knife Grinder Knife Holder Bracket Hinge Stud for 41335.....
42066	5544	Needle Guard.....
42069	5576	Presser Lever.....
42070	5584	“ “ Lifter.....
42071	5584	“ “ Spring.....
42072	5584	Spreader.....
42073	5582	Looper (right hand) and Spreader Lever with 1259c.....
42074	5582	Looper (right hand) and Spreader Lever Ball Stud.....
42074	5582	Needle Bar Crank (back) Ball Stud.....

NO.	PLATE	NAME
42075	5582	Looper (right hand) and Spreader Lever Connection with 42059, 42076 and four 896E.....
*42076	—	Looper (right hand) and Spreader Lever Connection Cap (lower) for 42075.....
*42076	—	Needle Bar Connecting Rod Cap (lower) for 42057.....
42077	5584	Looper (right hand) and Spreader Lever Connection Guide.....
42077	5584	Needle Bar Connecting Rod Guide.....
42078	5584	Looper (right hand) and Spreader Lever Hinge Pin.....
42079	5579	Feed (front) Rock Shaft Hinge Pin Bushing.....
42079	5579	Looper (right hand) and Spreader Lever Hinge Pin Bushing.....
42082	5585	Tension (needle thread) Thread Guide...
42083	5585	Thread (looper, left hand) Eyelet, obsolete, use 42242.....
42084	5585	Thread (looper, left hand) Tube.....
42086	5564	Machine Base with three wood screws 1¼ in. No. 12 and four each 935D, 4718, 42088 and 66707.....
42088	5586	Machine Cushion (felt) for 42086.....
42089	5566	Wrench for 1324, 1374 and 1629 (Accessories).....
42090	5566	Threading Wire (Accessories).....
42091	5584	Looper (right hand) obsolete, use 42166..
42092	5585	Thread (looper, right hand) Eyelet, obsolete, use 42127.....
42093	5585	Thread (looper, right hand) Staple.....
42096	5585	" (needle) Eyelet.....
42098	5579	Feed (front) Rock Shaft Hinge Pin.....
42101	5580	Frame Side Cover (right) Lock Spring....
42102	5582	" Top Cover Extension Holder.....
42103	5544	Needle Bar Crank (back) with 1258c and two 1259c.....
42104	5544	Needle Bar Crank (front) with 904c, 1258c and 1259c.....
42105	5544	Needle Bar Crank Shaft.....
42106	5584	Looper (right hand) and Spreader Lever Connection Oil Tube and Bracket with 29599.....
42108	5577	Cloth Plate Extension (upper) for 42146..
42111	5581	Knife (movable).....
42112	5581	" " Gib for 42113.....

NO.	PLATE	NAME
42113	—	Knife (movable) Holder 42035 with 133F, 42037, 42040, 42112 and two 404b.....
42114	5582	Looper (left hand).....
42115	5544	Needle Bar Thread Retainer Bracket.....
42121	5581	Tension (looper, left hand) Spring.....
42127	5585	Thread (looper, right hand) Take-up.....

Nos. 42130 TO 42132 FOR 42133 AND 42144

42130	5586	Lifting Lever.....
42131	5586	“ “ Bracket.....
42132	5586	“ “ Spring.....
42133	—	Foot Lifter complete, Nos. 1301b, 4885, 6439, 42130 to 42132 and two each 1148F, 1229c and 1547b.....
42142	5564	Lifting Lever Connecting Rod for 42144..
42143	5564	Rock Shaft complete for 42144, Nos. 2763, 2768, 6337, 7125 and two each 2770 and 12242.....
42144	—	Knee Lifter complete, Nos. 1301b, 42130 to 42132, 42142, 42143 and two each 1148F, 1229c and 1547b.....
42145	5577	Cloth Plate for 42146.....
42146	—	Cloth Plate complete, Nos. 42003, 42005, 42108, 42145, two 236c and five 229E..
42147	5557	Feed (back) Bar.....
42148	5557	“ “ Connecting Link.....
42149	5580	“ “ Dog, 3 teeth (16 teeth to the inch).....
42150	5557	Feed (back) Regulator.....
42151	5557	“ (front) Bar with 1253c.....
42153	5577	“ “ Eccentric Cover.....
42154	5557	“ “ Rock Shaft for 42155.....
42155	—	Feed (front) Rock Shaft complete, Nos. 42021 and 42154.....
42156	5580	Knife (stationary) Holder.....
42159	—	Presser Foot Plate for 42185.....
42160	5585	“ “ Spring Adjusting Pin for 42185.....
42162	5580	Thread (needle) Take-up.....
42166	5582	Looper (right hand).....
42182	5539	Feed (front) Dog, 17 teeth (16 teeth to the inch).....
42183	—	Presser Foot Body for 42185.....
42184	5539	“ “ Chaining-off Finger for 42185
42185	5539	Presser Foot (spring hinged) complete, Nos. 233b, 464c, 9320, 14058, 42159, 42160, 42183 and 42184.....

NUMERICAL LIST OF PARTS

29

NO.	PLATE	NAME
42186	5539	Throat Plate for 42149 and 42182.....
42187	5539	Welt Guide (solid).....
42188	5539	" " (hinged).....
42189	5539	" " Holder.....
42242	7396	Thread (looper, left hand) Eyelet.....
*42251	—	Arm with two each 462c and 42253.....
42253	5544	Needle Bar Bushing for 42251.....
42290	5578	Feed (front) Regulating Screw Stud Nut Washer.....
42367	5585	Frame Rotary Shaft Front Bearing Oil Pad (braided cotton).....

Nos. 42410 to 42413 FOR 42414

42410	7403	Chain Cutting Blade (lower).....
42411	7403	" " " (upper).....
42412	7401	" Cutter Frame Top Cover.....
42413	7401	" " Lifting Lever.....
42414	—	Chain Cutter complete, Nos. 42410 to 42413 and four 217D.....
42452	7403	Throat Plate for 42149 and 42182, for heavy work.....
50562c	7396	Looper (left hand) Lever Connecting Link Hinge Screw.....
54967	7403	Frame Rotary Shaft Flanged Bushing (back) Oil Pad (braided cotton) for 42026.....
56864	5566	Chain Hook (large) for 6439.....
56865	7396	" " (small) for 6439.....
66707	7403	Machine Cushion Screw Washer for 42086
120341	5566	Tweezers, curved (Accessories).....
120344	5566	Oiler (copper plated) with 120345 (Accessories).....
120345	5566	Oiler Spout, 5 in. long, for 120344.....
120440	5566	Screw Driver (Accessories).....
200383c	7396	Thread Unwinder Spool Rest Rod Set Screw for 202490.....
201018c	7396	Thread Unwinder Spool Rest Set Screw for 225389 and 225395.....
201696J	7396	Thread Unwinder Thread Guide Lock Nut for 225397.....
202490	7165	Thread Unwinder Spool Stand with 200383c, for 225397.....

Nos. 225388 to 225392 FOR 225397

225388	7165	Thread Unwinder Spool Rest Rod.....
225389	7165	" " " " (for one spool) with 201018c.....

NUMERICAL LIST OF PARTS

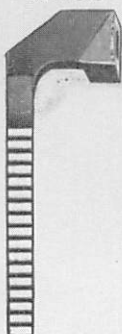
NO.	PLATE	NAME
225390	7234	Thread Unwinder Thread Cone Holder, for inverted cones.....
225391	7165	Thread Unwinder Thread Guide.....
225392	7165	" " " " Rod with 208E and 225393.....
225393	7396	Thread Unwinder Thread Guide Rod Washer for 225392.....
225395	7165	Thread Unwinder Spool Rest (for two spools) with 201018c, for 225397.....
225397	7165	Thread Unwinder complete, for three spools, Nos. 201696j, 202490, 225388, 225389, 225392, 225395, three 225391 and wood screws $\frac{7}{8}$ in. No. 13.....

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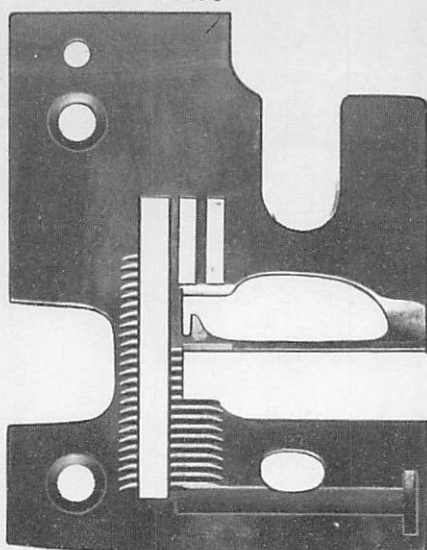
ILLUSTRATIONS
OF
PARTS

PLATE 5539—FULL SIZE

42182



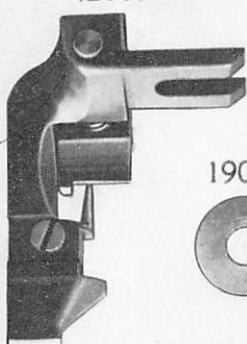
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42184



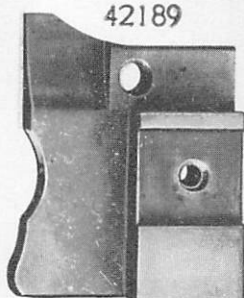
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1209



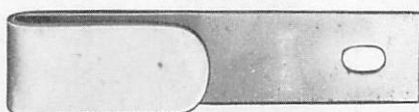
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19044



42187



1117



42188

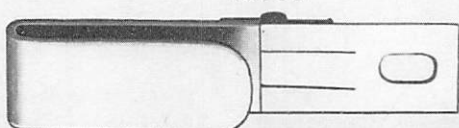


PLATE 5544—FULL SIZE

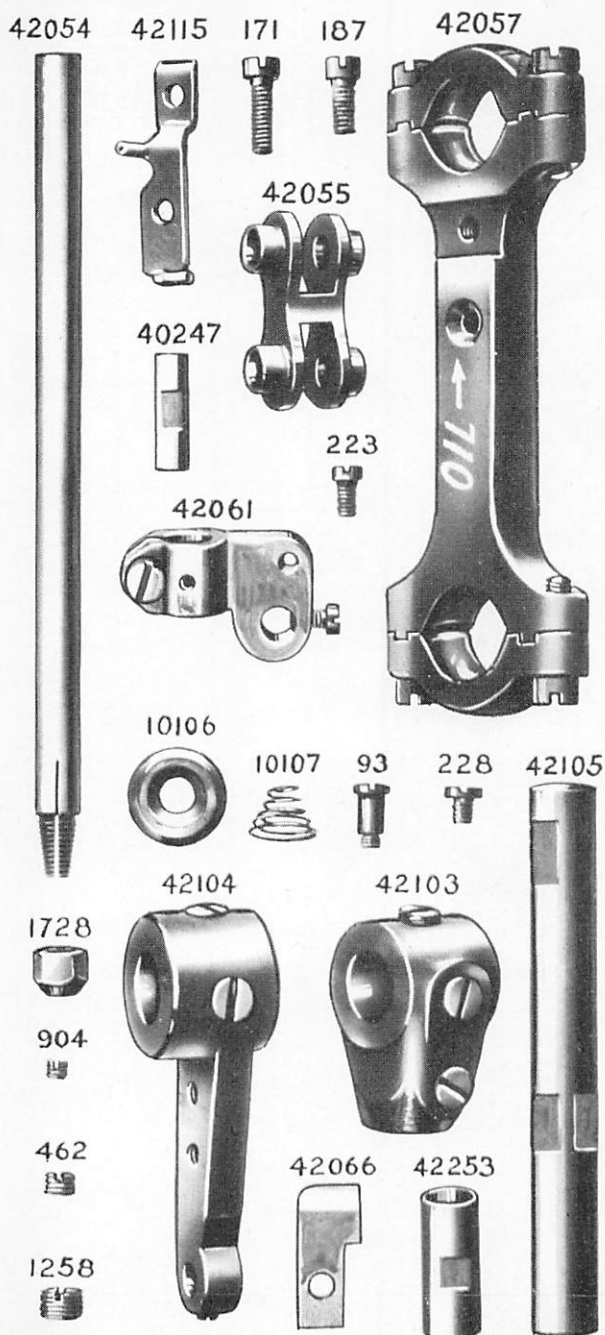


PLATE 5557—FULL SIZE

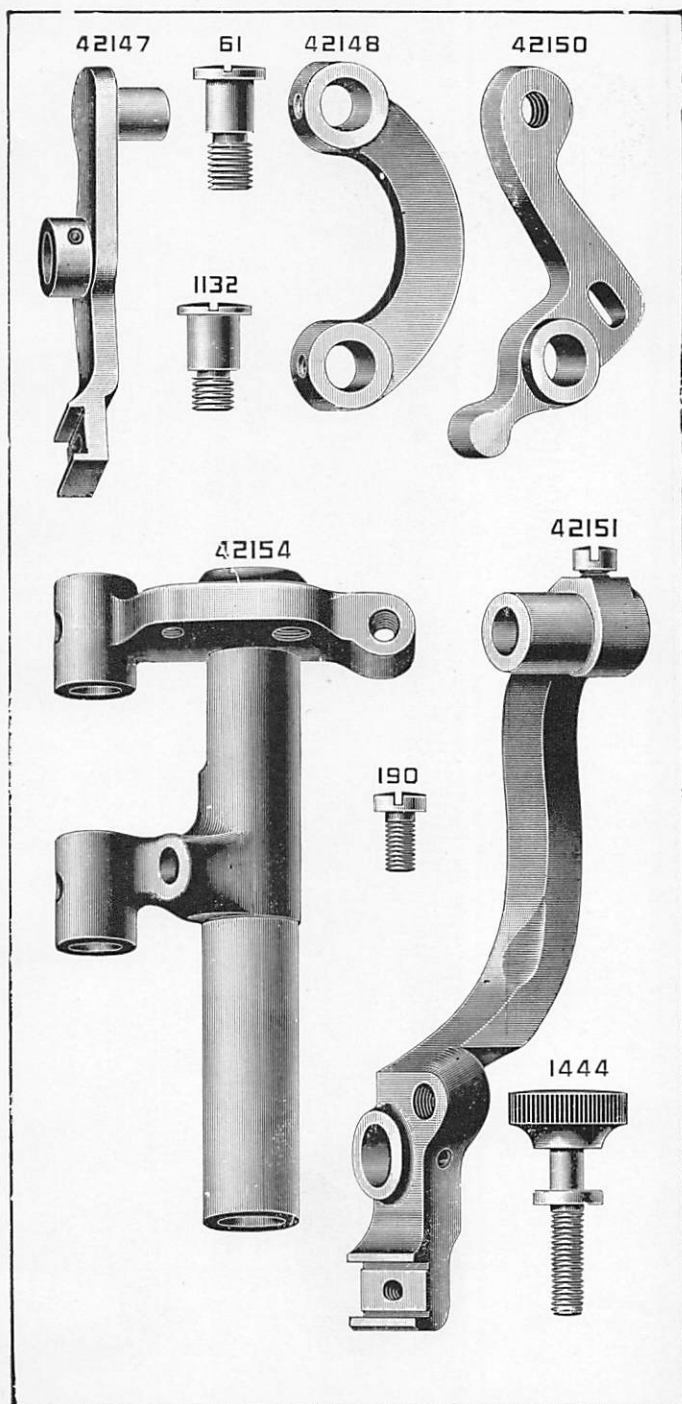


PLATE 5563—FULL SIZE

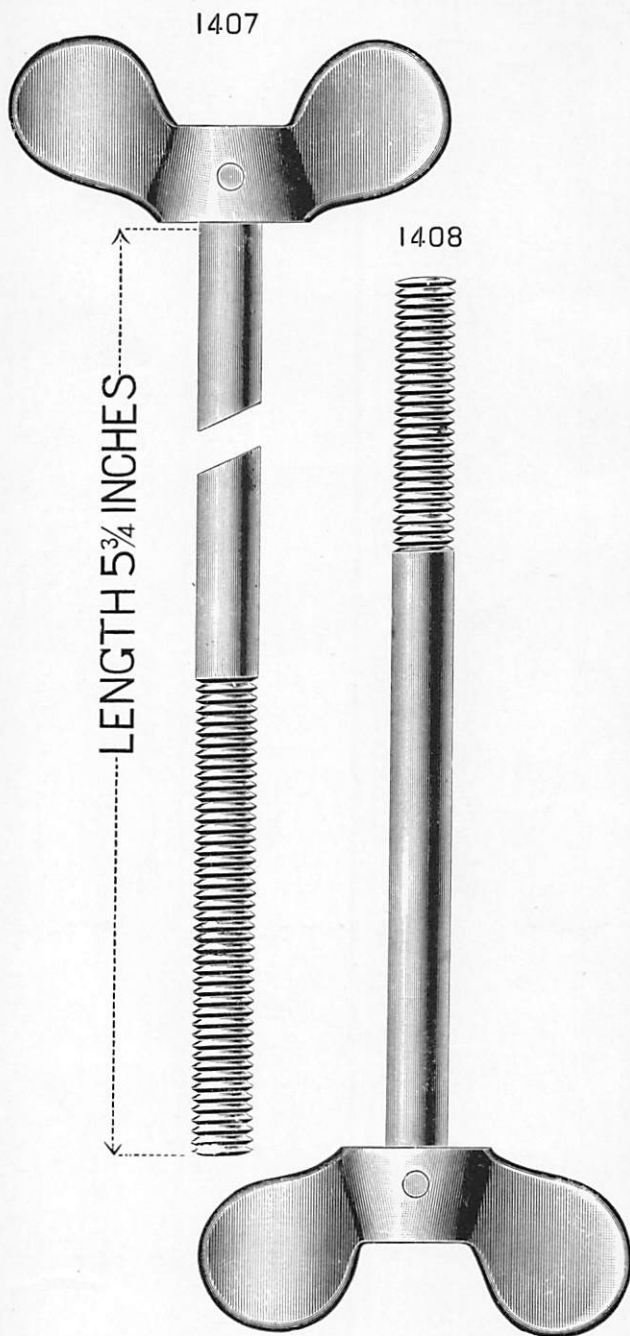


PLATE 5564—ONE-FOURTH SIZE

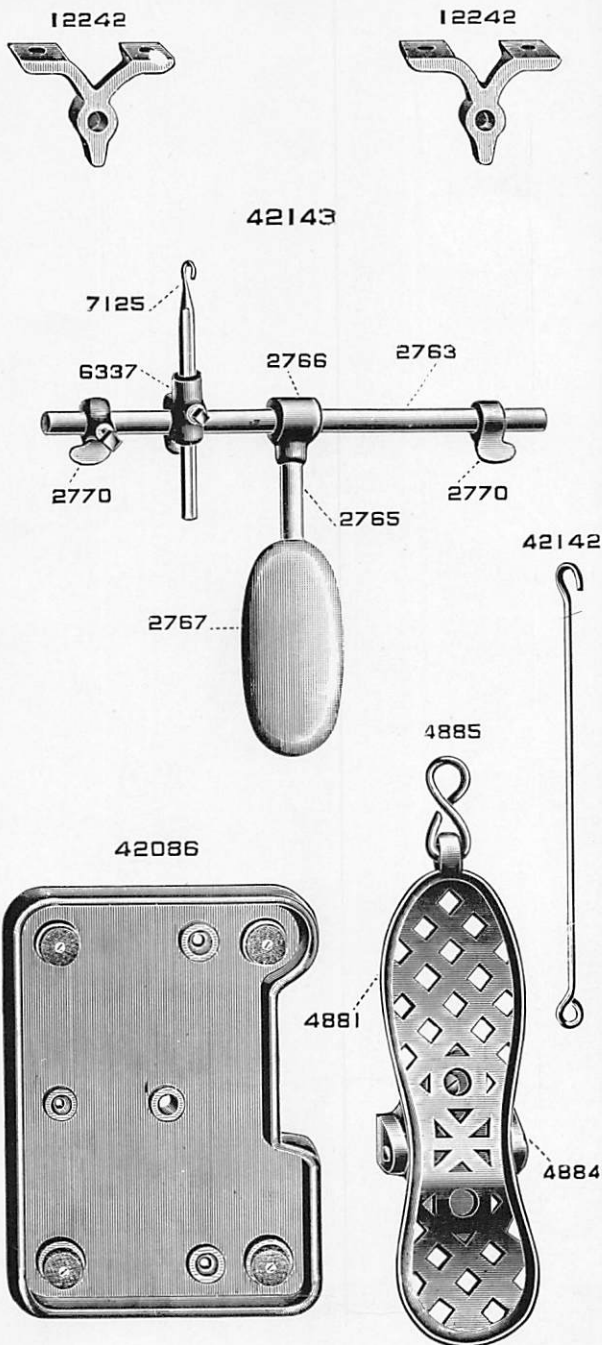
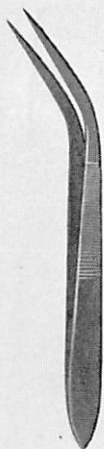


PLATE 5566—ONE-HALF SIZE

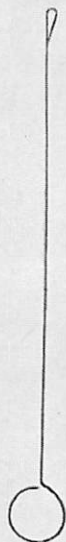
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120344



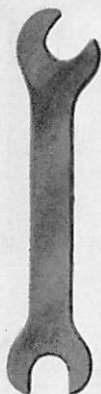
120440 42090



120345



8908



42089



4822



4883



4882



4879



56864

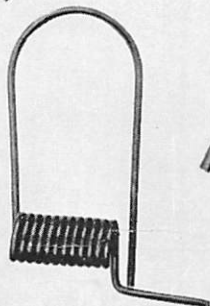


PLATE 5567--ONE-HALF SIZE

41329

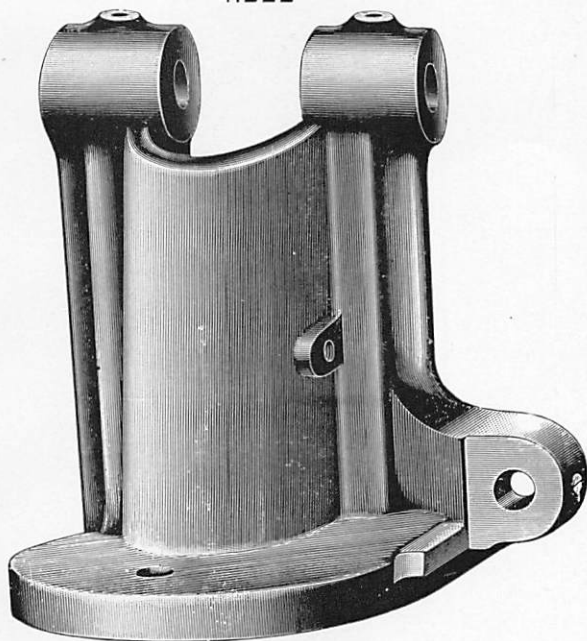


PLATE 5568—ONE-HALF SIZE

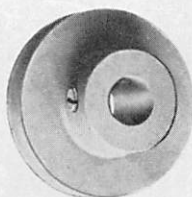
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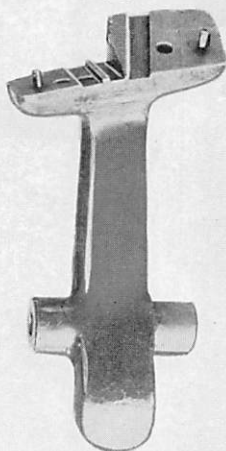
41326



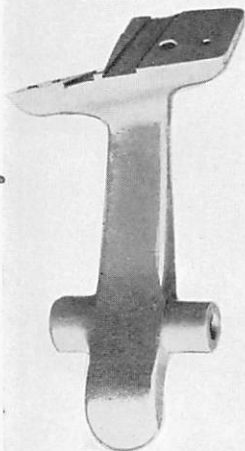
41328



41330



41818



41331



PLATE 5569—FULL SIZE

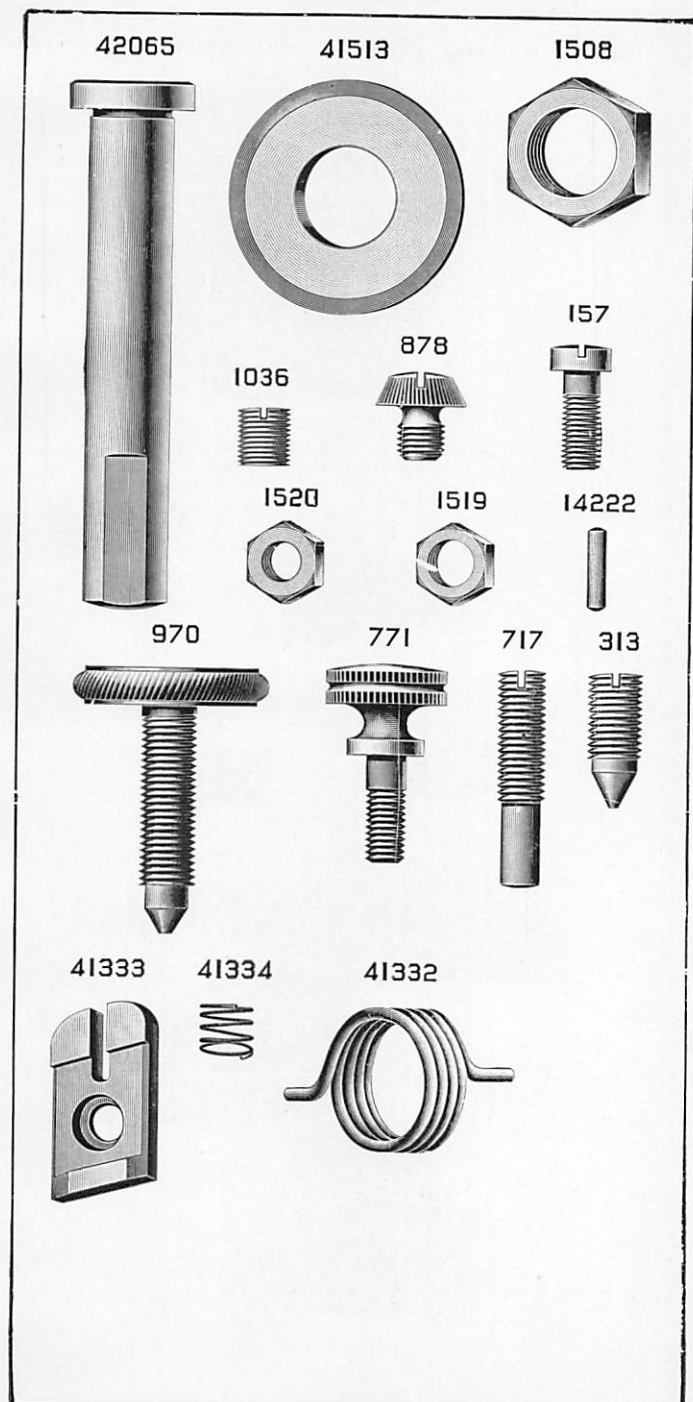
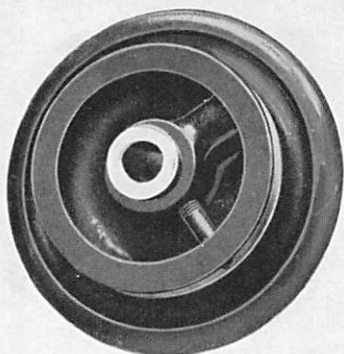


PLATE 5576—ONE-HALF SIZE

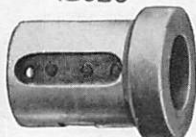
42023



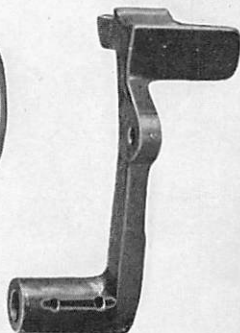
42001



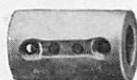
42026



42069



42024



42029

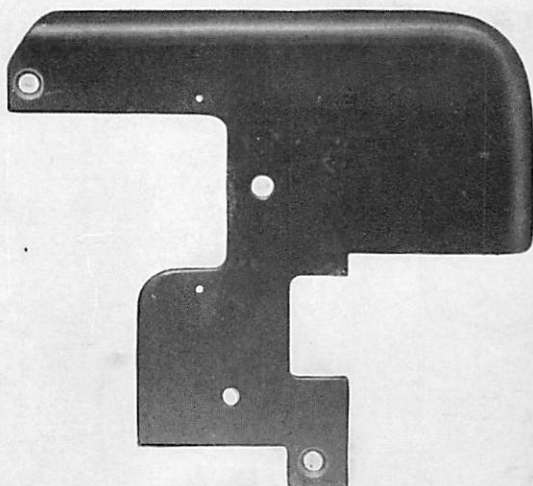
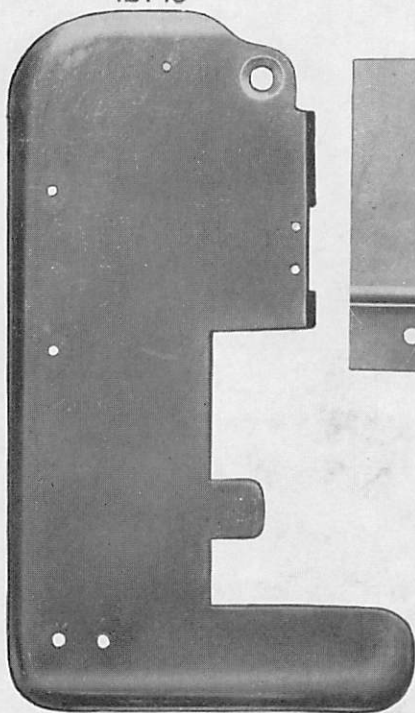
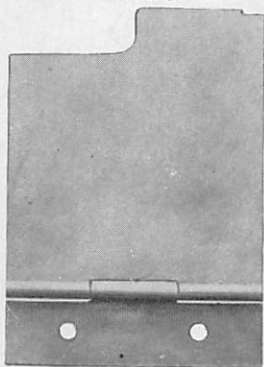


PLATE 5577—ONE-HALF SIZE

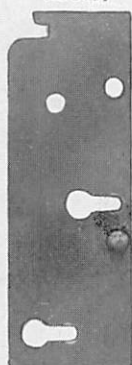
42145



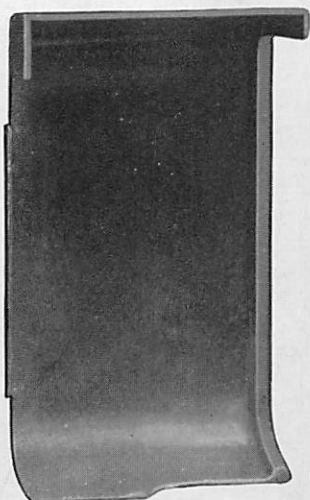
42028



42027



42003



42108



42005



42153

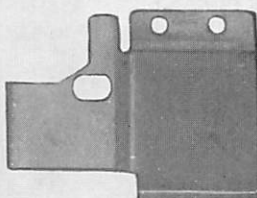
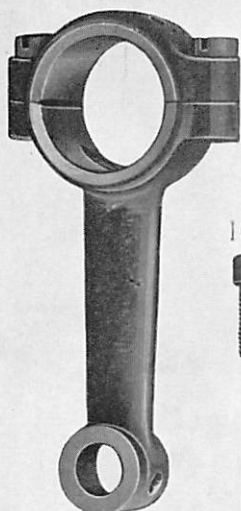
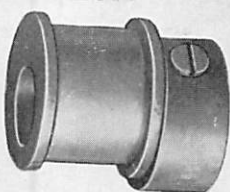


PLATE 5578—FULL SIZE

42008



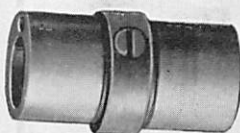
42011



1057



42012



42013



453



1373



1520



42290



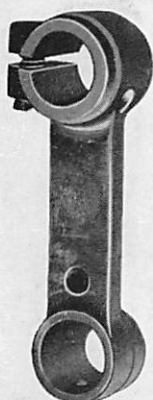
1680



1374



42015



42021



157



42007



1012

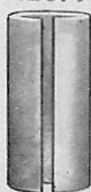


PLATE 5579—FULL SIZE

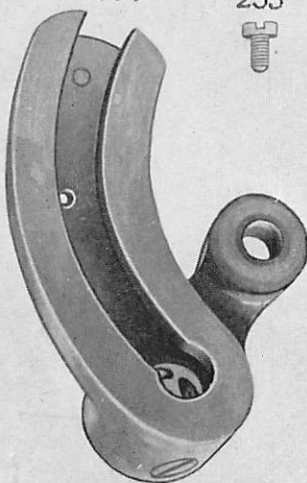
42098



42079



42014



233



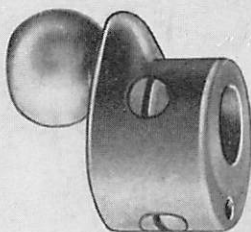
1259



1036



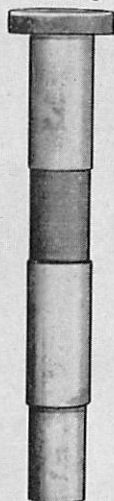
42025



1375



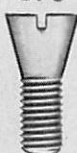
42016



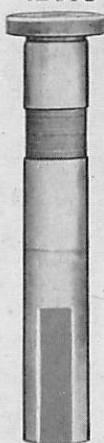
209



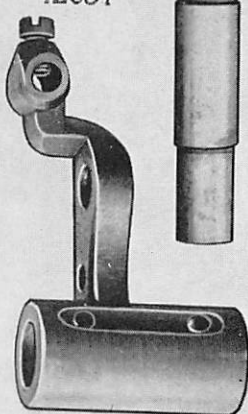
378



42053



42051

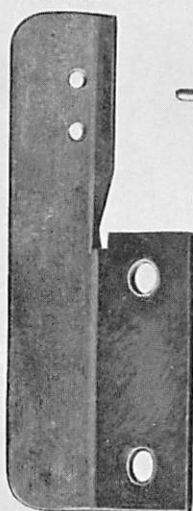


42052



PLATE 5580—FULL SIZE

42030



42101



42018



42046



176



337



42049



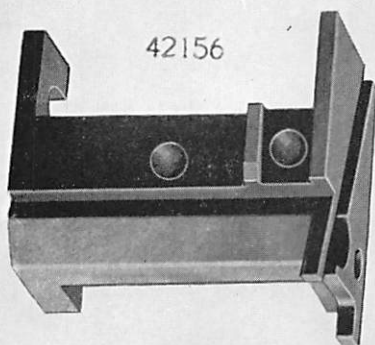
440



42149



42156



42017



42162



197



PLATE 5581—FULL SIZE

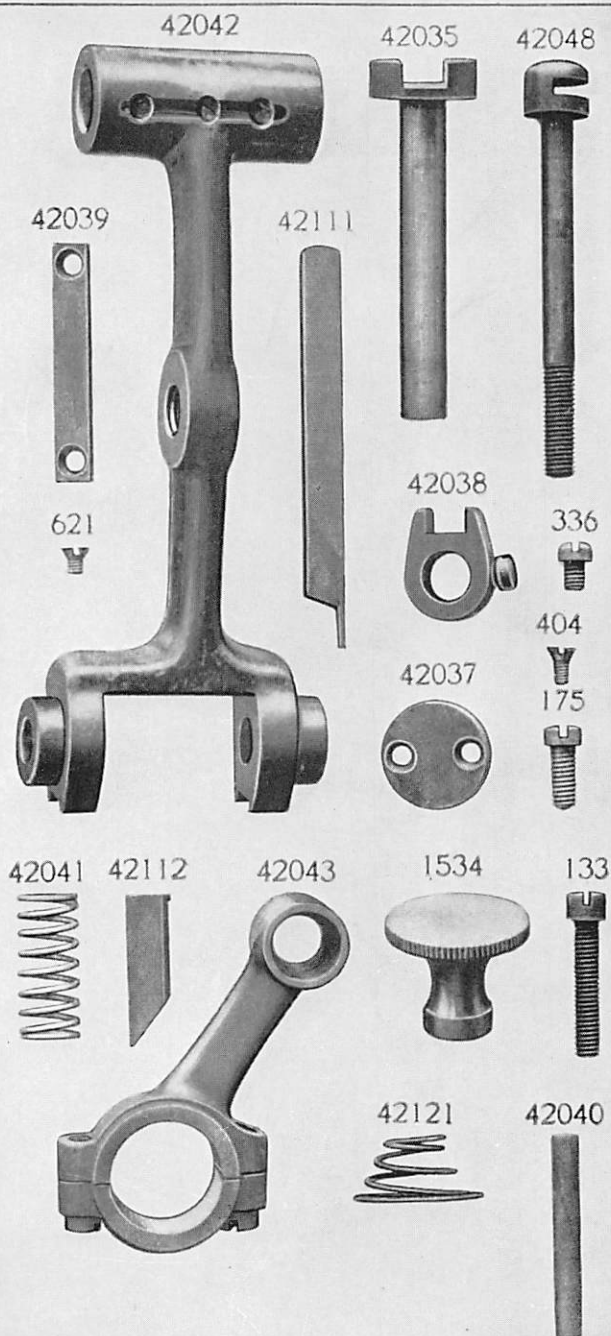


PLATE 5582—FULL SIZE

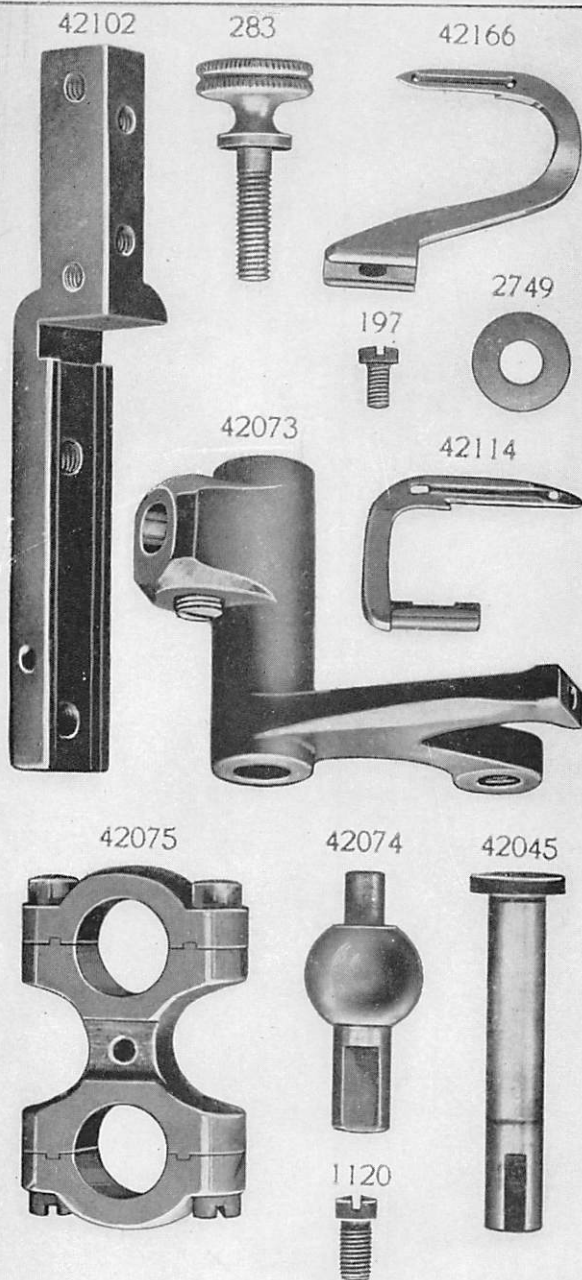


PLATE 5584—FULL SIZE

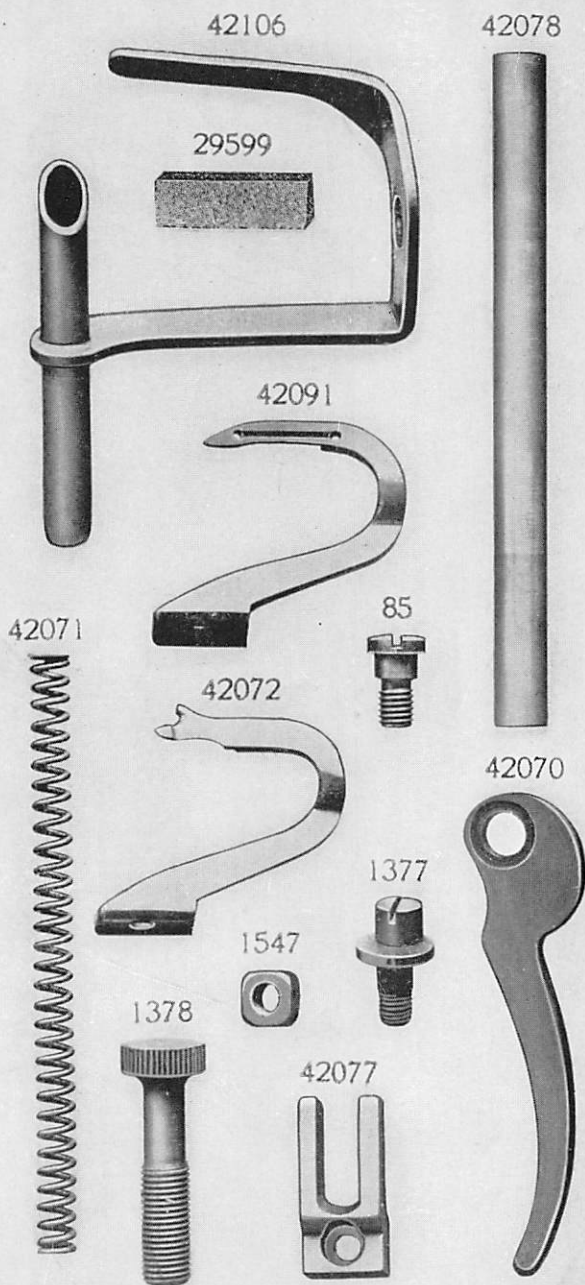
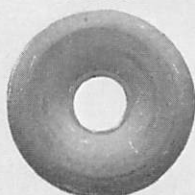


PLATE 5585—FULL SIZE

2102



828



916



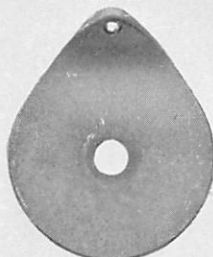
10148



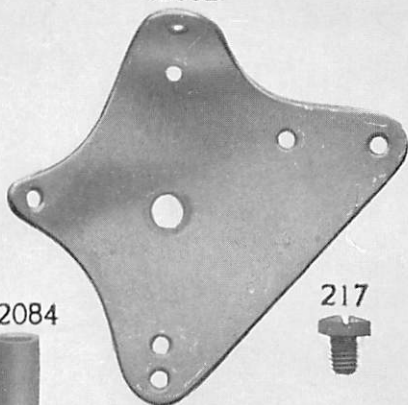
1560



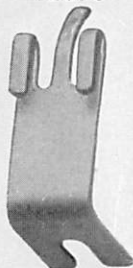
17547



42082



42093



42084



217



42083



42092



42096



42127



54967



42367



14058



19045



42160



4389



9320



PLATE 5586—FULL SIZE

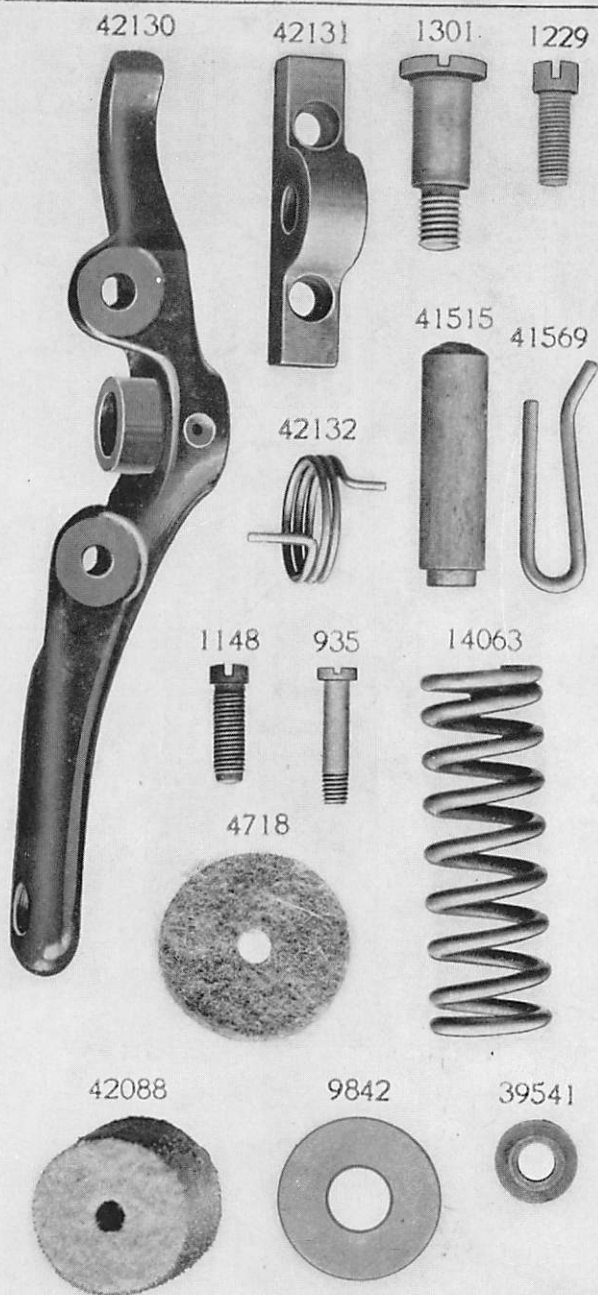


PLATE 5587—FULL SIZE

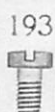
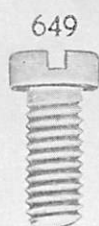
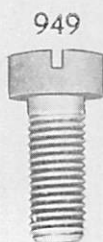
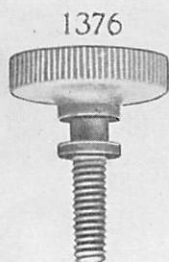


PLATE 7165—ONE-FOURTH SIZE

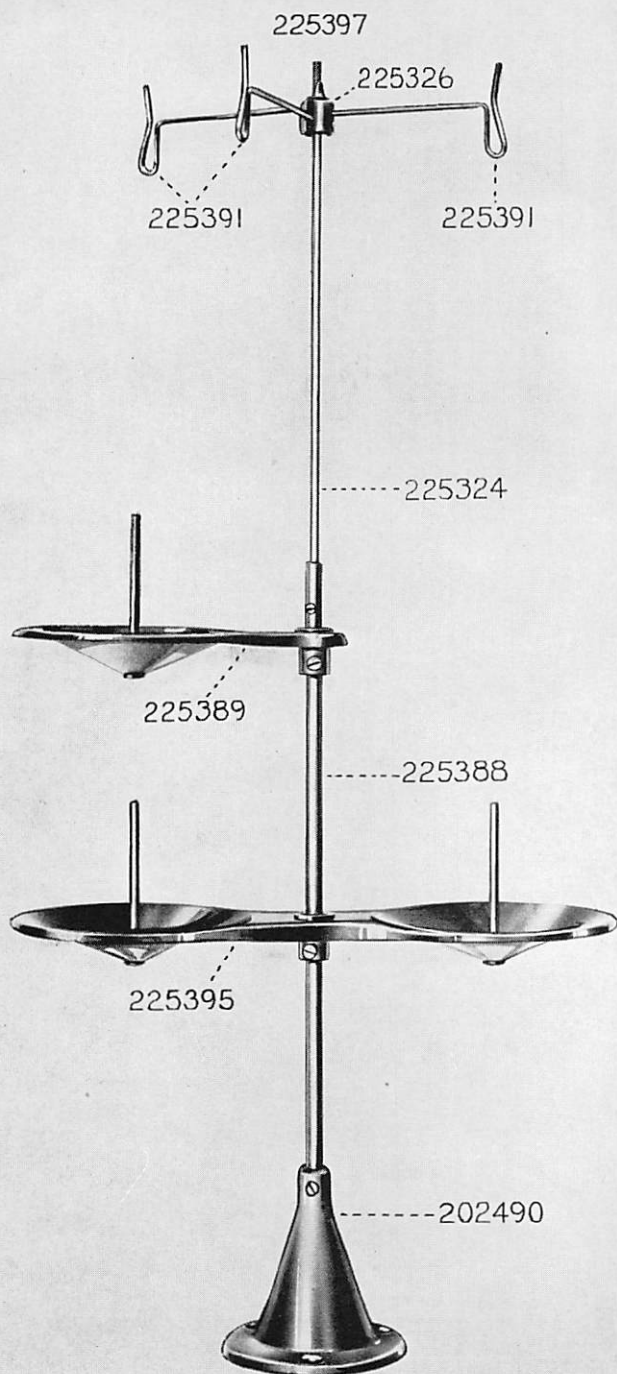


PLATE 7234—ONE-HALF SIZE

27739



225390

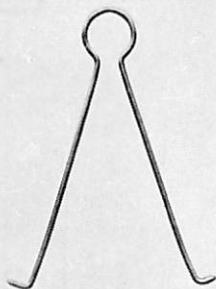


PLATE 7396—FULL SIZE

60914



56865



201696



225393



200383



42242



50562



896



201018



42461



208



624



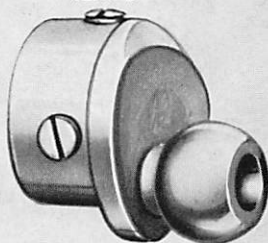
1258



66707



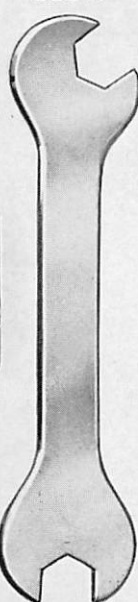
42110



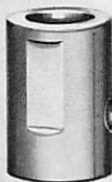
42483



68547



42487



225326



225322



42488

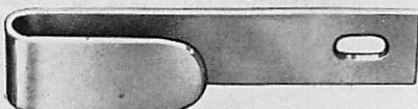
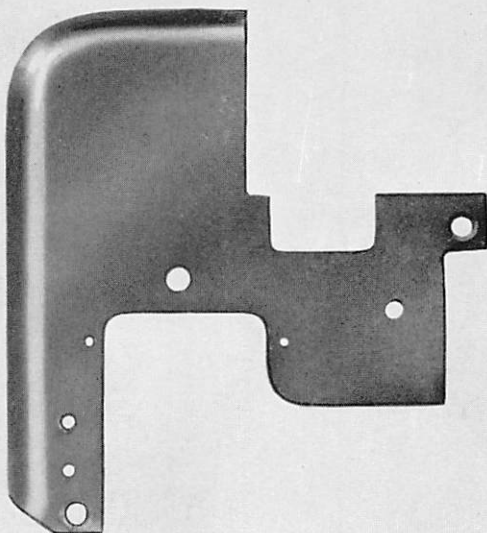


PLATE 7401—ONE-HALF SIZE

42412

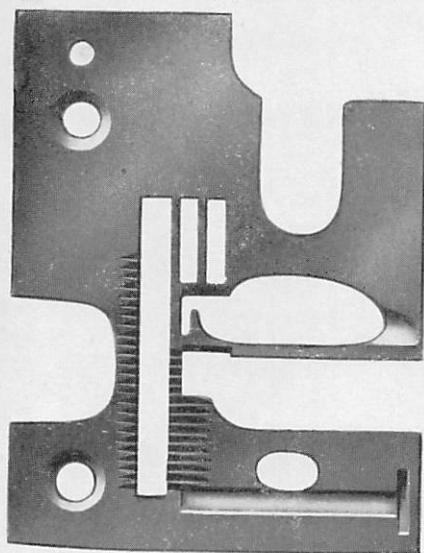


42413

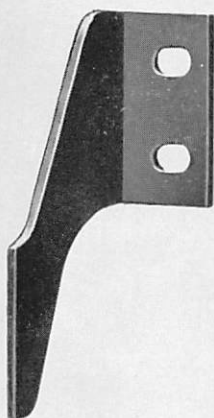


PLATE 7403—FULL SIZE

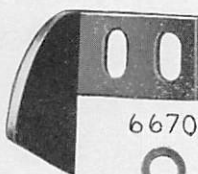
42452



42410



42411



66707



54967

