

**SINGER**  
**51W45,W46,W47**

Form 1806w  
MAY, 1922

**LIST**  
**OF**  
**PARTS**



**MACHINES**  
**Nos. 51w45, 51w46**  
**and 51w47**

**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 the number of the Single Part only, except when the part includes Set Screws, Clamping Screws, Studs and Rollers Spun on, Small Wires riveted, or Parts soldered together, etc., which it is necessary to furnish in combination.

Every combination of parts sent out has its specific number which, although not stamped on Parts (except in above cases) 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.
- H. Blued.

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

In this series

- 200001 to 201500 are Screw Numbers.
- 201501 to 201800 are Nut Numbers.
- 201801 to 202000 are Roller Numbers.
- 202001 and upward are numbers of Machine Parts.

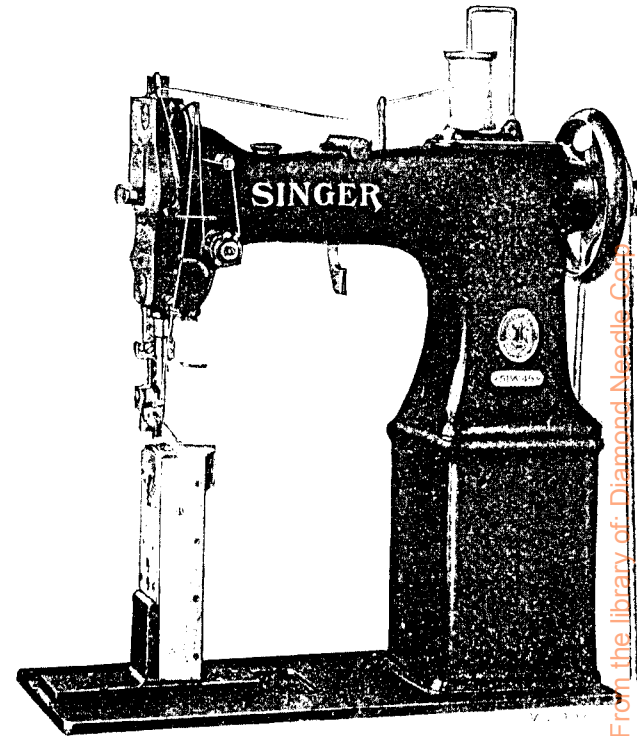
The figures in the second column refer only to the plate in which the illustration of the part is shown and are **NOT TO BE USED** in ordering.

Two or more numbers over a cut indicate that the difference between such parts is not visible in an illustration.

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

## LIST OF PARTS COMPLETE

FOR



### MACHINE No. 51w45

DROP FEED. ROLLER PRESSER

For Stitching a Seam and Trimming the Edges  
at one Operation

For Leather and Gloves

No.	Plate	Name
*206921	—	Arm with 202243, 202245 and two 200338c .....
*234002	—	Arm Base .....
204235	10668	" " Position Pin (2) .....
200010E	10245	" " Screw (3) .....
202005	10245	" " " Washer (3) .....
207073	13976	" Bushing Hole Plug .....

## Parts for Machine No. 51w45

No.	Plate	Name
200352c	10248	Arm Bushing Hole Plug Set Screw
203091	13977	" Cap .....
200278H	13302	" " Screw .....
202248	13302	" " Washer .....
203089	10947	" " Spool Holder Base .....
203090	10947	" " " " " 203089 with 200079H and 204296 .....
200585H	10373	Arm Cap Spool Holder Base Screw
204296	10947	" " " " Wire .....
200079H	10668	" " " " " Hinge Screw .....
203092	—	Arm Cap and Spool Holder complete, Nos. 203090, 203091 and two 200585H .....
10554	13976	Arm Position Pin (2) .....
200010E	10245	" Screw (3) .....
241501	13977	" Shaft with 200357E and 203100
202246	10947	" " Bushing (back) with 202244 .....
202244	—	Arm Shaft Bushing (back) Oil Packing (wick) .....
200338c	13302	Arm Shaft Bushing (back) Set Screw .....
202245	10947	Arm Shaft Bushing (front) with 202036 and 202260 .....
202260	—	Arm Shaft Bushing (front) Oil Packing (wick) .....
200502H	10246	Arm Shaft Bushing (front) Oil Packing Thumb Screw .....
202036	10668	Arm Shaft Bushing (front) Position Pin .....
200338c	13302	Arm Shaft Bushing (front) Set Screw .....
234003	13301	Arm Shaft Connection Belt .....
202635	13977	" " " " Pulley with 200327c, 200602E and two 202253 .....
200602E	13302	Arm Shaft Connection Belt Pulley Position Screw .....
200327c	13302	Arm Shaft Connection Belt Pulley Set Screw .....
202253	13302	Arm Shaft Connection Belt Pulley Spring Flange .....
203100	—	Arm Shaft Oil Packing (wick) ...
200357E	13302	" " " " Stop Screw
234147	13301	Balance Wheel (belt groove 2 3/4 in. diam.) with 200328c and 200335c
200328c	13302	Balance Wheel Position Screw ...
200335c	10248	" " Set Screw .....

## Parts for Machine No. 51w45

No.	Plate	Name
*234004	—	Bed .....
202258	12153	" Hinge Connection (2) .....
200570E	10245	" " " Screw (4) .....
203470	13302	Bobbin .....
*203498	—	" Case .....
203648	13302	" " Latch .....
*202056	—	" " " Pin .....
203473	13302	" " " Plunger .....
203474	13302	" " " Spring .....
234079	13302	" " Lever .....
234065	13302	" " " Driving Block .....
200076D	13302	" " " " " Screw
201272c	13976	" " " Hinge Screw ...
203214	13302	" " Tension Spring .....
200984c	13302	" " " " " Regulat- ing Screw .....
200594c	13302	Bobbin Case Tension Spring Screw
203216	—	" " Washer (cloth) .....
203500	13976	Bobbin Case complete, Nos. 200594c, 200984c, 202056, 203214, 203216, 203473, 203474, 203498 and 203648 .....
206951	10947	Face Plate .....
234010	13977	Feed Bar .....
200641c	10246	" " Hinge Screw (driving)...
201518E	13976	" " " " Nut .....
202276	10245	" " Slide Block .....
234084	—	" " " " Crank with 200038c .....
234011	13302	Feed Bar Slide Block Crank 234084 with 200205E, 201518E and 202276
200038c	10245	Feed Bar Slide Block Crank Pinch Screw .....
200205E	10245	Feed Bar Slide Block Hinge Screw
201518E	13976	" " " " " " " Nut .....
212637	13983	Feed Dog .....
241502	13977	" " Lever with 200098E .....
200362c	13976	" " " Adjusting Screw
201524E	11291	" " " " " " Check Nut .....
200263E	13302	Feed Dog Lever Hinge Screw .....
201528E	13302	" " " " " Nut...
241503	13977	" " " Post .....
241504	—	" " " " 241503 with 200265E, 201525E, 203610, 221212, 241502, 241522, four each 200054E and 200578H .....

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No.	Plate	Name
221209	13978	Feed Dog Lever Post Cover (back)
241507	13978	" " " " " (front)
200159F	13304	" " " " " "
		Clamp Screw .....
200583H	10668	Feed Dog Lever Post Cover (back or front) Screw .....
241522	13978	Feed Dog Lever Post Cover (side) with 200362c and 201524E .....
200578H	13976	Feed Dog Lever Post Cover (side) Screw .....
200024C	13304	Feed Dog Lever Post Screw (2) ..
203637	13976	" " " " " Washer (2) .....
221212	13978	Feed Dog Lever Post Support ....
200054E	10246	" " " " " Screw
200008C	13976	" " " " " "
		(2) .....
203637	13976	Feed Dog Lever Post Support Screw Washer (2) .....
203610	13304	Feed Dog Lever Slide Block ....
200265E	13304	" " " " " Hinge Screw .....
201525E	10245	Feed Dog Lever Slide Block Hinge Screw Nut .....
200098E	13304	Feed Dog Screw .....
234015	13301	" Driving Connection with 200049E and 202277 .....
202298	10245	Feed Driving Connection Crank with 200038C .....
200038C	10245	Feed Driving Connection Crank Pinch Screw .....
200545C	10245	Feed Driving Connection Hinge Screw .....
201518E	13976	Feed Driving Connection Hinge Screw Nut .....
202277	---	Feed Driving Connection Oil Packing (wick) .....
200049E	13304	Feed Driving Connection Pinch Screw .....
202300	10246	Feed Driving Eccentric Regulating Bracket .....
203098	13306	Feed Driving Eccentric Regulating Bracket 202300 with 202635, two each 201014C and 201525E .....
201014C	10245	Feed Driving Eccentric Regulating Bracket Hinge Screw .....
201525E	10245	Feed Driving Eccentric Regulating Bracket Hinge Screw Nut .....
202301	10246	Feed Driving Eccentric Regulating Bracket Plunger .....

No.	Plate	Name
202595	10246	Feed Driving Eccentric Regulating Bracket Plunger Spring .....
200607C	10246	Feed Driving Eccentric Regulating Bracket Plunger Spring Stop Screw .....
201014C	10245	Feed Driving Eccentric Regulating Bracket Stop Screw .....
201525E	10245	Feed Driving Eccentric Regulating Bracket Stop Screw Nut .....
200429C	10246	Feed Driving Eccentric Regulating Screw .....
200383C	10246	Feed Driving Eccentric Regulating Screw Check Screw .....
202303	13301	Feed Driving Rock Shaft .....
234016	---	" " " " " 202303 with 200641C, 201518E and 234010
202305	10245	Feed Driving Rock Shaft Center (2)
200043C	10246	" " " " " Set Screw (2) .....
234017	13301	Feed Lifting Connection with 200049E and 202277 .....
202307	13976	Feed Lifting Connection Eccentric with 200382C and 200437C .....
200437C	10246	Feed Lifting Connection Eccentric Position Screw .....
200382C	10373	Feed Lifting Connection Eccentric Set Screw .....
200545C	10245	Feed Lifting Connection Hinge Screw .....
201518E	13976	Feed Lifting Connection Hinge Screw Nut .....
202277	---	Feed Lifting Connection Oil Packing (wick) .....
200049E	13304	Feed Lifting Connection Pinch Screw .....
234018	13301	Feed Lifting Rock Shaft .....
202305	10245	" " " " " Center (2)
200043C	10246	" " " " " Set Screw (2) .....
207070	10947	Feed Regulating Spindle with 202311, 202443, 202619 and 210554
*202311	---	Feed Regulating Spindle Head ...
202443	13304	" " " " " Pin
202619	10668	" " " " " Position Pin .....
210554	10668	Feed Regulating Spindle Spring (flat) .....
241505	13978	Foot Lifter Lifting Lever .....
200262H	10248	" " " " " Hinge Screw .....

No.	Plate	Name
234019	13301	Foot Lifter Lifting Lever Rod with 202302 .....
202302	10248	Foot Lifter Lifting Lever Rod Cotter Pin .....
203058	13304	Foot Lifter Lifting Lever Rod Coupling with 200530c .....
200530c	13976	Foot Lifter Lifting Lever Rod Coupling Set Screw .....
203059	13304	Foot Lifter Lifting Lever Rod Spring .....
203060	13304	Foot Lifter Lifting Lever Rod Spring Hook .....
*241519	---	Hook (sewing) .....
241520	13979	" 241519 with 201253e, 201376e and 203251 .....
241521	13979	Hook and Bobbin Case complete. Nos. 203500 and 241520 .....
241506	13978	Hook Bevel Gear Socket, 14 teeth
234024	13304	" " " " Friction Washer .....
200555u	13304	Hook Bevel Gear Socket Screw ..
234025	13304	" " Pinion, 28 teeth, with two 200378c .....
200378c	10668	Hook Bevel Pinion Set Screw ....
234026	13301	" Driving Shaft .....
202321	13979	" " " Bushing (3) ..
200346c	13979	" " " " Set Screw (3) .....
234027	13304	Hook Driving Shaft Collar with two 200378c (2) .....
200378c	10668	Hook Driving Shaft Collar Set Screw .....
234028	13306	Hook Driving Shaft Connection Belt Pulley with 202253 and two 201254c .....
201254c	13304	Hook Driving Shaft Connection Belt Pulley Set Screw .....
202253	13302	Hook Driving Shaft Connection Belt Pulley Spring Flange ....
224392	---	Hook Driving Shaft Oil Packing (wick) (3) .....
203251	13979	Hook Gib .....
201376e	13979	" " Hinge Screw .....
201253e	13304	" " Screw .....
234069	13306	" Post .....
241508	---	" " 234069 with 200555u, 202299, 221209, 221215, 221222, 234024, 241506, 241507, 241521 and eight 200583u .....

No.	Plate	Name
241509	---	Hook Post complete, Nos. 200159e, 241504 and 241508 .....
202299	---	Hook Post Oil Packing (wick) ..
200008c	13976	" " Screw (2) .....
203637	13976	" " " Washer (2) .....
221215	13304	" " Slide .....
221222	13979	" Washer .....
207805	10620	Knife .....
241510	13980	" Bar .....
241511	---	" " 241510 with 202894, 202895, two each 200585u and 200898u ..
202889	10373	Knife Bar Driving Eccentric with 200382c and 200437c .....
202890	10373	Knife Bar Driving Eccentric Fork with 200382c and 201464c .....
201464c	13979	Knife Bar Driving Eccentric Fork Position Screw .....
200382c	10373	Knife Bar Driving Eccentric Fork Set Screw .....
200437c	10246	Knife Bar Driving Eccentric Position Screw .....
200382c	10373	Knife Bar Driving Eccentric Set Screw .....
202891	10947	Knife Bar Driving Shaft Crank with 200694e and 201525e .....
200694e	10373	Knife Bar Driving Shaft Crank Screw Stud .....
201525e	10245	Knife Bar Driving Shaft Crank Screw Stud Nut .....
202892	10373	Knife Bar Friction Gib .....
202893	10373	" " Lifting Spring (spiral)
202894	10373	" " " " Bracket
200585u	10373	" " " " " Screw .....
200485e	10373	Knife Bar Lifting Spring Thumb Screw .....
206949	13981	Knife Bar Stop Plate (lower) Face Plate Hinge and Holder .....
206950	13981	Knife Bar Stop Plate (upper) and Face Plate Stop .....
200582u	10252	Knife Bar Stop Plate Screw (4)..
202895	13981	" Holder .....
200898u	13981	" " Screw .....
202897	13981	" " Switch-in Handle ....
200076b	13302	" Screw .....
202898	10947	" Switch-out Handle with two 200373c .....
200373c	10373	Knife Switch-out Handle Set Screw
202899	10373	" " " Shaft ....

No.	Plate	Name
202900	10373	Knife Switch-out Handle Spring (spiral) .....
241512	13981	Needle Bar with 200389c .....
202550	13981	" " Bushing .....
241513	—	" " " 202550 with 241512 .....
200352c	10248	Needle Bar Bushing Set Screw ..
202552	13981	" " Connecting Link .....
202332	10668	" " " " Oil Guard .....
200161D	10247	Needle Bar Connecting Link Oil Guard Screw .....
202333	10248	Needle Bar Connecting Link Stud with 202254 .....
202254	—	Needle Bar Connecting Link Stud Oil Packing (wick) .....
200374c	10668	Needle Bar Connecting Link Stud Set Screw .....
200383c	10246	Needle Bar Connecting Link Stud Set Screw .....
*206891	—	Needle Bar Connecting Stud .....
202329	10248	" " " " 206891 with 200086c and 202330 .....
202330	—	Needle Bar Connecting Stud Oil Packing (wick) .....
200086c	10248	Needle Bar Connecting Stud Pinch Screw .....
202692	13980	Needle Bar Crank with 200335c, 200374c, 200383c, 200428c and 202333 .....
241514	—	Needle Bar Crank 202692 with 202329, 202399, 202400, 202552 and 241518 .....
203172	10248	Needle Bar Crank Friction Washer
200428c	10248	" " " Position Screw
200335c	10248	" " " Set Screw .....
200389c	10252	" Set Screw .....
207072	10249	Presser Bar Bushing .....
200352c	10248	" " " Set Screw .....
202339	10249	" " Lifter .....
200653c	10249	" " " Hinge Screw .....
202903	13982	" " Lifting Releasing Lever Bracket .....
200260D	10249	Presser Bar Lifting Releasing Lever Bracket Guide Screw .....
202342	10249	Presser Bar Lifting Releasing Lever Bracket Spring (spiral) .....
202337	10249	Presser Bar Position Guide .....
202338	10249	" " " " Lever with 200086c .....

No.	Plate	Name
200086c	10248	Presser Bar Position Guide Lever Pinch Screw .....
200352c	10248	Presser Bar Position Guide Set Screw .....
202378	13982	Presser Bar Spring .....
202346	10249	" " " Stop Rod .....
200492B	10249	" " Thumb Screw (pressure regulating) .....
201909	13982	Roller Presser, $\frac{13}{16}$ in. diam., $\frac{3}{8}$ in. face (coarse), with 200551c and 201534H .....
204328	13982	Roller Presser Arm .....
241515	13982	" " " 204328 with 201909 .....
202560	10284	Roller Presser Arm Bracket (swing)
241516	—	" " " " 202560 with 200096D and 241515 .....
200675c	13982	Roller Presser Arm Bracket Position Screw Stud .....
202558	10284	Roller Presser Arm Bracket Spring
202559	10284	" " " " " Stop .....
200141F	10248	Roller Presser Arm Bracket Spring Stop Screw .....
200096D	10284	Roller Presser Arm Screw .....
202557	10284	" " Bar .....
200551c	13982	" " Hinge Screw .....
201534H	10284	" " " " Nut .....
241517	13980	Roller Presser and Bar complete Nos. 200675c, 202557 to 202559, 241516 and two 200141F .....
241518	13983	Take-up Lever .....
202399	10247	" " Driving Stud with 202277 .....
202277	—	Take-up Lever Driving Stud Oil Packing (wick) .....
202400	10247	Take-up Lever Hinge Stud with 202423 .....
202423	—	Take-up Lever Hinge Stud Oil Packing (wick) .....
200383c	10246	Take-up Lever Hinge Stud Set Screw .....
202401	10247	Take-up Lever Oiling Felt .....
200132E	10247	" " " " Screw ..
202402	10247	Tension Disc (back) .....
202403	10247	" " (front) .....
202404	10247	" Release Plunger .....
202405	10247	" " Washer .....



No.	Plate	Name
202407	10881	Tension Spring .....
200625F	10247	" Stud with 204925 .....
200084F	13983	" " Set Screw .....
204925	10668	" " Washer .....
201572R	10881	" Thumb Nut .....
202409	10252	Tension complete, Nos. 200625F, 201572R, 202402, 202403, 202405, 202407 and 202410 .....
202410	10252	Thread Controller Spring .....
202411	10252	" " " Stop .....
200132E	10247	" " " " Screw .....
202412	10252	" Guide .....
202413	10252	" " .....
202414	10252	" " .....
202415	10252	" " .....
202979	10252	" " .....
200582H	10252	" " Screw .....
200355H	10252	" " Set Screw .....
200368H	10668	" " " " .....
202091	10252	" Retainer Sleeve .....
202092	10252	" " Spring .....
204058	10252	" " Stud .....
200368H	10668	" " " Set Screw .....
204059	10668	Thread Retainer complete, Nos. 202091, 202092 and 204058 .....
241523	13983	Throat Plate, 53 needle hole, for needle sizes 12 and 13, with 200178D, 200587D, 212664 and 215772, trims opposite the needle and .045, .060 and .085 in. to right of seam .....
215772	13983	Throat Plate Knife Follower .....
200587D	13983	" " " " Screw .....
212664	13983	" " " " Spring .....
200178D	13983	" " " " " .....
		Screw .....
200577H	10473	Throat Plate Screw (2) .....

## LIST OF PARTS COMPLETE

FOR

## MACHINE No. 51w46

DROP FEED, ROLLER PRESSER

Oblique Underedge Trimmer. Trims Back of  
Needle

For Leather

No.	Plate	Name
*241601		Arm with 202243, 202245 and two 200338c .....
*234002		Arm Base .....
204235	10668	" " Position Pin (2) .....
200010E	10245	" " Screw (3) .....
202005	10245	" " " Washer (3) .....
207073	13976	" Bushing Hole Plug .....
200352C	10248	" " " " Set Screw .....
203091	13977	" Cap .....
200278H	13302	" " Screw .....
202248	13302	" " " Washer .....
203089	10947	" " Spool Holder Base .....
203090	10947	" " " " " 203089 with 200079H and 204296 .....
200585H	10373	Arm Cap Spool Holder Base Screw .....
204296	10947	" " " " Wire .....
200079H	10668	" " " " " Hinge Screw .....
203092		Arm Cap and Spool Holder com- plete, Nos. 203090, 203091 and two 200585H .....
10554	13976	Arm Position Pin (2) .....
200010E	10245	" Screw (3) .....
241621	13977	" Shaft with 200357E and 203100 .....
202243	10947	" " Bushing (back) with 202244 .....
202244		Arm Shaft Bushing (back) Oil Packing (wick) .....
200338c	13302	Arm Shaft Bushing (back) Set Screw .....
202245	10947	Arm Shaft Bushing (front) with 202036 and 202260 .....

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No.	Plate	Name
202260	—	Arm Shaft Bushing (front) Oil Packing (wick) .....
200502n	10246	Arm Shaft Bushing (front) Oil Packing Thumb Screw .....
202036	10668	Arm Shaft Bushing (front) Position Pin .....
200338c	13302	Arm Shaft Bushing (front) Set Screw .....
234003	13301	Arm Shaft Connection Belt .....
202635	13977	" " " " Pulley with 200327c, 200602n, and two 202253 .....
200602E	13302	Arm Shaft Connection Belt Pulley Position Screw .....
200327c	13302	Arm Shaft Connection Belt Pulley Set Screw .....
202253	13302	Arm Shaft Connection Belt Pulley Spring Flange .....
203100	—	Arm Shaft Oil Packing (wick) ...
200357E	13302	" " " " Stop Screw
234147	13301	Balance Wheel (belt groove 2 3/4 in. diam.) with 200328c and 200335c
200328c	13302	Balance Wheel Position Screw ...
200335c	10248	" " Set Screw .....
*234004	—	Bed .....
202258	12153	" Hinge Connection (2) .....
200570E	10245	" " " Screw (4) ...
203470	13302	Bobbin .....
241530	13976	" Case Base with 202056, 203211 to 203213 and 203216 .....
203211	13976	Bobbin Case Base Latch .....
*202056	—	" " " " Pin .....
203212	13976	" " " " Plunger ...
203213	13976	" " " " Spring ...
234081	13976	" " Cap with 200594c, 200984c and 203214 .....
234079	13302	Bobbin Case Lever .....
234065	13302	" " " Driving Block
200076n	13302	" " " " " Screw .....
201272c	13976	Bobbin Case Lever Hinge Screw..
203214	13302	" " Tension Spring .....
200984c	13302	" " " " Regulating Screw .....
200594c	13302	Bobbin Case Tension Spring Screw
203216	—	" " Washer (cloth) .....
241531	—	Bobbin Case complete, Nos. 234081 and 241530 .....
204353	11283	Bracket (underedge) with 204411..
200517B	13976	" Screw (2) .....

No.	Plate	Name
213629	11283	Bracket (underedge) complete, Nos. 200047n, 200118E, 200577n, 200888, 202603, 204233, 204353, 204361, 204363 to 204365, 204368, 204372, 204373, 213772, 213774, 213777, 214053 and two 200028n .....
206951	10947	Face Plate .....
234010	13977	Feed Bar .....
200641c	10246	" " Hinge Screw (driving)
201518E	13976	" " " " Nut .....
202276	10245	" " Slide Block .....
234084	—	" " " " Crank with 200038c .....
234011	13302	Feed Bar Slide Block Crank 234084 with 200205E, 201518E and 202276
200038c	10245	Feed Bar Slide Block Crank Pinch Screw .....
200205E	10245	Feed Bar Slide Block Hinge Screw
201518E	13976	" " " " " " Nut .....
213920	13983	Feed Dog .....
241502	13977	" " Lever with 200098E .....
200362c	13976	" " " Adjusting Screw
201524E	11291	" " " " " Check Nut .....
200263E	13302	Feed Dog Lever Hinge Screw .....
201528E	13302	" " " " " Nut..
241503	13977	" " " Post .....
241504	—	" " " " 241503 with 200265E, 201525E, 203610, 221212, 241502, 241522, four each 200054E and 200578n .....
221209	13978	Feed Dog Lever Post Cover (back)
241507	13978	" " " " " (front)
200159E	13304	" " " " " " Clamp Screw .....
200583n	10668	Feed Dog Lever Post Cover (back or front) Screw .....
241522	13978	Feed Dog Lever Post Cover (side) with 200362c and 201524E .....
200578n	13976	Feed Dog Lever Post Cover (side) Screw .....
200024c	13304	Feed Dog Lever Post Screw (2) ..
203637	13976	" " " " " Washer (2) .....
221212	13978	Feed Dog Lever Post Support .....
200054E	10246	" " " " " Screw
200008c	13976	" " " " " (2) .....

No.	Plate	Name
203637	13976	Feed Dog Lever Post Support Screw Washer (2)
203610	13304	Feed Dog Lever Slide Block
200265E	13304	" " " " " Hinge Screw
201525E	10245	Feed Dog Lever Slide Block Hinge Screw Nut
200098E	13304	Feed Dog Screw
234015	13301	" Driving Connection with 200049E and 202277
202298	10245	Feed Driving Connection Crank with 200038c
200038c	10245	Feed Driving Connection Crank Pinch Screw
200545c	10245	Feed Driving Connection Hinge Screw
201518E	13976	Feed Driving Connection Hinge Screw Nut
202277	—	Feed Driving Connection Oil Packing (wick)
200049E	13304	Feed Driving Connection Pinch Screw
202300	10246	Feed Driving Eccentric Regulating Bracket
203098	13306	Feed Driving Eccentric Regulating Bracket 202300 with 202635, two each 201014c and 201525E
201014c	10245	Feed Driving Eccentric Regulating Bracket Hinge Screw
201525E	10245	Feed Driving Eccentric Regulating Bracket Hinge Screw Nut
202301	10246	Feed Driving Eccentric Regulating Bracket Plunger
202595	10246	Feed Driving Eccentric Regulating Bracket Plunger Spring
200607c	10246	Feed Driving Eccentric Regulating Bracket Plunger Spring Stop Screw
201014c	10245	Feed Driving Eccentric Regulating Bracket Stop Screw
201525E	10245	Feed Driving Eccentric Regulating Bracket Stop Screw Nut
200429c	10246	Feed Driving Eccentric Regulating Screw
200383c	10246	Feed Driving Eccentric Regulating Screw Check Screw
202303	13301	Feed Driving Rock Shaft
234016	—	" " " " 202303 with 200641c, 201518E and 234010

No.	Plate	Name
202305	10245	Feed Driving Rock Shaft Center (2)
200043c	10246	Feed Driving Rock Shaft Center Set Screw (2)
234017	13301	Feed Lifting Connection with 200049E and 202277
202307	13976	Feed Lifting Connection Eccentric with 200382c and 200437c
200437c	10246	Feed Lifting Connection Eccentric Position Screw
200382c	10373	Feed Lifting Connection Eccentric Set Screw
200545c	10245	Feed Lifting Connection Hinge Screw
201518E	13976	Feed Lifting Connection Hinge Screw Nut
202277	—	Feed Lifting Connection Oil Packing (wick)
200049E	13304	Feed Lifting Connection Pinch Screw
234018	13301	Feed Lifting Rock Shaft
202305	10245	" " " " Center (2)
200043c	10246	" " " " " Set Screw (2)
207070	10947	Feed Regulating Spindle with 202311, 202443, 202619 and 210554
*202311	—	Feed Regulating Spindle Head
202443	13304	" " " " " Pin
202619	10668	" " " " " Position Pin
210554	10668	Feed Regulating Spindle Spring (flat)
241505	13978	Foot Lifter Lifting Lever
200262H	10248	" " " " " Hinge Screw
234019	13301	Foot Lifter Lifting Lever Rod with 202302
202302	10248	Foot Lifter Lifting Lever Rod Cotter Pin
203058	13304	Foot Lifter Lifting Lever Rod Coupling with 200530c
200530c	13976	Foot Lifter Lifting Lever Rod Coupling Set Screw
203059	13304	Foot Lifter Lifting Lever Rod Spring
203060	13304	Foot Lifter Lifting Lever Rod Spring Hook
204355	11291	Guide Finger
204357	10473	" " Clamp with 200103B and 200136F

No.	Plate	Name
204358	10473	Guide Finger Clamp Bar .....
204359	10473	" " " " Carrier with 200875 .....
213777	---	Guide Finger Clamp Bar Carrier 204359 with 204357, 204358, 204366 and 204367 .....
204361	10473	Guide Finger Clamp Bar Carrier Latch .....
200802E	11291	Guide Finger Clamp Bar Carrier Latch Hinge Screw .....
204230	11291	Guide Finger Clamp Bar Carrier Latch Spring .....
204233	10473	Guide Finger Clamp Bar Carrier Latch Spring 204230 with 200802E
204364	10473	Guide Finger Clamp Bar Carrier Position Guide with 200078u and 200387c .....
200078u	10473	Guide Finger Clamp Bar Carrier Position Guide Pinch Screw ...
200387c	10473	Guide Finger Clamp Bar Carrier Position Guide Set Screw .....
204363	10473	Guide Finger Clamp Bar Carrier Position Guide Slide .....
200577u	10473	Guide Finger Clamp Bar Carrier Position Guide Slide Screw .....
200785D	13976	Guide Finger Clamp Bar Carrier Screw (handle) .....
200875	10473	Guide Finger Clamp Bar Carrier Screw 200785D with 201537u ...
201537u	10473	Guide Finger Clamp Bar Carrier Screw (handle) Nut .....
204365	10473	Guide Finger Clamp Bar Carrier Spring .....
204366	10473	Guide Finger Clamp Bar Position Guide with 200140u .....
200140u	13976	Guide Finger Clamp Bar Position Guide Screw .....
204367	10473	Guide Finger Clamp Bar Spring ..
200103D	10473	" " " Pinch Screw ..
200136F	13976	" " " Screw .....
204368	10473	" " Suspending Stop (ad- justable) .....
200118F	13976	Guide Finger Suspending Stop Screw .....
202603	13976	Guide Finger Suspending Stop Screw Washer .....
*221214	---	Hook (sewing) .....
241602	13979	" 221214 with 201253F, 201376F and 241604 .....

No.	Plate	Name
241603	13979	Hook and Bobbin Case complete, Nos. 241531 and 241602 .....
241506	13978	Hook Bevel Gear Socket, 14 teeth
234024	13304	" " " Friction Washer .....
200555u	13304	Hook Bevel Gear Socket Screw ..
234025	13304	" " Pinion, 28 teeth, with two 200378c .....
200378c	10668	Hook Bevel Pinion Set Screw ...
234026	13301	" Driving Shaft .....
202321	13979	" " " Bushing (3) ..
200346c	13979	" " " Set Screw (3) .....
234027	13304	Hook Driving Shaft Collar with two 200378c (2) .....
200378c	10668	Hook Driving Shaft Collar Set Screw .....
234028	13306	Hook Driving Shaft Connection Belt Pulley with 202253 and two 201254c .....
201254c	13304	Hook Driving Shaft Connection Belt Pulley Set Screw .....
202253	13302	Hook Driving Shaft Connection Belt Pulley Spring Flange .....
224392	---	Hook Driving Shaft Oil Packing (wick) (3) .....
241604	13979	Hook Gib .....
201376F	13979	" " Hinge Screw .....
201253F	13304	" " Screw .....
234069	13306	" Post .....
241605	---	" " 234069 with 200555u, 202299, 221203, 221215, 221222 234024, 241506, 241507, 241603 and eight 200583u .....
241606	---	Hook Post complete, Nos. 200159F, 241504 and 241605 .....
202299	---	Hook Post Oil Packing (wick) ...
200008c	13976	" " Screw (2) .....
203637	13976	" " " Washer (2) .....
221215	13304	" " Slide .....
221222	13979	" Washer .....
207805	10620	Knife .....
204369	11291	" Bar (hollow) with 200094F ..
213774	---	" " 204369 with 204342 ....
204372	11291	" " Collar with two 200387c
200387c	10437	" " " Set Screw .....
241607	13980	" " Driving Bar with two 200585u .....
200585u	10373	Knife Bar Driving Bar Screw ...

No.	Plate	Name
213178	11291	Knife Bar Driving Collar with 200381E and 200387C .....
213772	---	Knife Bar Driving Collar 213178 with 200097C, 200243E, 200252C, 213179, 213181, 213628 and two 201528E .....
200381E	11291	Knife Bar Driving Collar Screw ..
200387C	10437	" " " " Set Screw ..
213635	13980	" " " Eccentric with 200382C and 200437C .....
202890	10373	Knife Bar Driving Eccentric Fork with 200382C and 201464C .....
201464C	13979	Knife Bar Driving Eccentric Fork Position Screw .....
200382C	10373	Knife Bar Driving Eccentric Fork Set Screw .....
200437C	10246	Knife Bar Driving Eccentric Position Screw .....
200382C	10373	Knife Bar Driving Eccentric Set Screw .....
213181	11291	Knife Bar Driving Link .....
213179	11291	" " " " Bracket ..
200243E	13979	" " " " Hinge Screw .....
201528E	13302	Knife Bar Driving Link Bracket Hinge Screw Nut .....
200252C	11291	Knife Bar Driving Link Hinge Screw .....
201528E	13302	Knife Bar Driving Link Hinge Screw Nut .....
202891	10947	Knife Bar Driving Shaft Crank with 200694E and 201525E .....
200694E	10373	Knife Bar Driving Shaft Crank Screw Stud .....
201525E	10245	Knife Bar Driving Shaft Crank Screw Stud Nut .....
213628	11291	Knife Bar Handle .....
200097C	11291	" " " Screw .....
204373	11291	" " Position Guide with 200890 .....
200026B	11291	Knife Bar Position Guide Pinch Screw .....
200890	11291	Knife Bar Position Guide Pinch Screw 200026B with 201534H ..
201534H	10284	Knife Bar Position Guide Pinch Screw Nut .....
200028B	13979	Knife Bar Position Guide Screw ..
204411	13979	" " Sleeve (split) .....
200043C	10246	" " " Set Screw .....

No.	Plate	Name
200888	11291	Knife Bar Sleeve Set Screw 200043C with 201524E .....
201524E	11291	Knife Bar Sleeve Set Screw Nut ..
206949	13981	" " Stop Plate (lower) Face Plate Hinge and Holder .....
206950	13981	Knife Bar Stop Plate (upper) and Face Plate Stop .....
200582H	10252	Knife Bar Stop Plate Screw (4) ..
214053	11291	" " Throw-out Spring .....
200047D	13981	" " " " Screw (lower) .....
200301E	11291	Knife Bar Throw-out Spring Screw (upper) .....
204381	---	Knife Holder .....
204342	11291	" " 204381 with two 200126F ..
200094E	11291	" " Screw .....
241608	13980	" Switch-out Handle with two 200373C .....
200373C	10373	Knife Switch-out Handle Set Screw ..
202899	10373	" " " Shaft .....
202900	10373	" " " Spring (spiral) .....
200126F	13981	Knife Screw .....
241609	13981	Needle Bar with 200141E .....
202550	13981	" " Bushing .....
241610	---	" " " 202550 with 241609 .....
200352C	10248	Needle Bar Bushing Set Screw ..
202552	13981	" " Connecting Link .....
202332	10668	" " " " Oil Guard .....
200161D	10247	Needle Bar Connecting Link Oil Guard Screw .....
202333	10248	Needle Bar Connecting Link Stud with 202254 .....
202254	---	Needle Bar Connecting Link Stud Oil Packing (wick) .....
200374C	10668	Needle Bar Connecting Link Stud Set Screw .....
200383C	10246	Needle Bar Connecting Link Stud Set Screw .....
*206891	---	Needle Bar Connecting Stud .....
202329	10248	" " " " 206891 with 200086C and 202330 .....
202330	---	Needle Bar Connecting Stud Oil Packing (wick) .....
200086C	10248	Needle Bar Connecting Stud Pinch Screw .....

No.	Plate	Name
202692	13980	Needle Bar Crank with 200335c, 200374c, 200383c, 200428c and 202333 .....
241514	---	Needle Bar Crank 202692 with 202329, 202399, 202400, 202552 and 241518 .....
203172	10248	Needle Bar Crank Friction Washer
200428c	10248	" " " Position Screw ..
200335c	10248	" " " Set Screw .....
200141F	10248	" Set Screw .....
207072	10249	Presser Bar Bushing .....
200352c	10248	" " " Set Screw ....
202339	10249	" " Lifter .....
200653c	10249	" " " Hinge Screw ..
202903	13982	" " Lifting Releasing Lever Bracket .....
200260D	10249	Presser Bar Lifting Releasing Lever Bracket Guide Screw .....
202342	10249	Presser Bar Lifting Releasing Lever Bracket Spring (spiral) ....
202337	10249	Presser Bar Position Guide .....
202338	10249	" " " " Lever with 200086F .....
200086F	10248	Presser Bar Position Guide Lever Pinch Screw .....
200352c	10248	Presser Bar Position Guide Set Screw .....
202378	13982	Presser Bar Spring .....
234044	13982	" " " Stop Rod .....
200492B	10249	" " Thumb Screw (pressure regulating) .....
201906	13982	Roller Presser, 1½ in. diam., ¾ in. face (fine), with 200548c and 201534H .....
202839	10284	Roller Presser Arm .....
204567	13982	" " " 202839 with 201906 .....
202560	10284	Roller Presser Arm Bracket (swing) .....
202838	---	Roller Presser Arm Bracket 202560 with 200096D and 204567 .....
200675c	13982	Roller Presser Arm Bracket Position Screw Stud .....
202558	10284	Roller Presser Arm Bracket Spring
202559	10284	" " " " " Stop .....
200141F	10248	Roller Presser Arm Bracket Spring Stop Screw .....

No.	Plate	Name
200096D	10284	Roller Presser Arm Screw .....
202557	10284	" " Bar .....
200548c	10284	" " Hinge Screw .....
201534H	10284	" " " " Nut ...
202840	10284	Roller Presser and Bar complete, Nos. 200675c, 202557 to 202559, 202838 and two 200141F .....
241518	13983	Take-up Lever .....
202399	10247	" " Driving Stud with 202277 .....
202277	---	Take-up Lever Driving Stud Oil Packing (wick) .....
202400	10247	Take up Lever Hinge Stud with 202423 .....
202423	---	Take-up Lever Hinge Stud Oil Packing (wick) .....
200383c	10246	Take-up Lever Hinge Stud Set Screw .....
202401	10247	Take-up Lever Oiling Felt .....
200132E	10247	" " " " Screw ..
202402	10247	Tension Disc (back) .....
202403	10247	" " (front) .....
202404	10247	" Release Plunger .....
202405	10247	" " Washer .....
202407	10881	" Spring .....
200625F	10247	" Stud with 204925 .....
200084F	13983	" " Set Screw .....
204925	10668	" " Washer .....
201572B	10881	" Thumb Nut .....
202409	10252	Tension complete, Nos. 200625F, 201572B, 202402, 202403, 202405, 202407 and 202410 .....
202410	10252	Thread Controller Spring .....
202411	10252	" " " Stop .....
200132E	10247	" " " " Screw .....
202412	10252	" Guide .....
202413	10252	" " .....
202414	10252	" " .....
202415	10252	" " .....
202979	10252	" " .....
200582H	10252	" " Screw .....
200355H	10252	" " Set Screw .....
200368H	10668	" " " " .....
202091	10252	" Retainer Sleeve .....
202092	10252	" " Spring .....
204058	10252	" " Stud .....
200368H	10668	" " " Set Screw .....
204059	10668	Thread Retainer complete, Nos. 202091, 202092 and 204058 .....

No.	Plate	Name
241611	13983	Throat Plate, 50 needle hole, for needle sizes 14 and 15, with 200178D, 200587D, 212655 and 212664, trims back of needle and .015, .025, .035 and .050 in. to right of seam, for 213920 .....
212655	13983	Throat Plate Knife Follower .....
200587D	13983	" " " " Screw..
212664	13983	" " " " Spring
200178D	13983	" " " " "
		Screw .....
200577H	10473	Throat Plate Screw (2) .....

## MACHINE No. 51w47

DROP FEED. ROLLER PRESSER

Oblique Underedge Trimmer. Trims Abreast of Needle. For Leather

The same as Machine No. 51w46 with the following exceptions:

No.	Plate	Name
204356	11291	Guide Finger, in place of 204355 ..
241651	13983	Throat Plate, 50 needle hole, for needle sizes 14 and 15, with 200178D, 200587D, 212658 and 212664, trims opposite the needle and .050, .060 and .075 in. to right of seam, in place of 241611 ....
212658	13983	Throat Plate Knife Follower, in place of 212655 .....

## ACCESSORIES

No.	Plate	Name
203470	13302	Bobbin (5) .....
*225482	—	" Case Screw Driver Blade ..
*225483	—	" " " " Handle ..
225497	12153	Bobbin Case Screw Driver complete, Nos. 225482 and 225483 ..
207805	10620	Knife .....
225487	13982	Roller Presser Hinge Screw Nut Wrench .....
128 x 2	—	Needles, two each, sizes 11, 12 and 13 .....
225191	—	Drip Pan with four wood screws $\frac{1}{2}$ in., No. 5 .....
41400	12153	Machine Rest Pin (wood) .....
36578	12153	Oiler with 36579 .....
36579	12153	" Spout, $3\frac{1}{4}$ in. long, with 120117 .....
120117	—	" " Washer (leather) .....
*225484	—	Screw Driver Blade .....
*225485	—	" " Handle .....
225498	12153	Screw Driver complete (7 $\frac{1}{2}$ in. long), Nos. 225484 and 225485 ..
225554	12153	Wrench (steel) .....

### BOBBIN WINDER

#### Swing Automatic, Right Hand

*225451	—	Bobbin Holder .....
225453	10882	Frame with 202277 and 225438 ..
225454	10882	" Hinge Pin .....
202277	—	" Oil Packing (wick) .....
225438	10882	" " Well Cap .....
225455	10882	" Spring .....
225456	10882	" " Plunger .....
202473	10883	Pulley with 200105c .....
200105c	13976	" Set Screw .....
*225443	—	Spindle .....
225452	10882	" 225443 with 225451 .....
225444	10882	Stop Latch .....
200056E	10882	" " Screw .....
225458	10882	" " Thumb Lever .....
225459	10882	" " " " Hinge Stud .....
225460	10882	" " " " Joint Stud .....
202478	10882	" " Trip Lever .....
200299H	10882	" " " " Hinge Screw .....

No.	Plate	Name
225461	10881	Tension Bracket with 201499B ...
200082D	10881	" " Screw .....
228026	13976	" " " Washer .....
2102	10881	" Disc .....
202407	10881	" Spring .....
201499B	10881	" Stud .....
201572B	10881	" " Thumb Nut .....
225462	10881	Bobbin Winder Tension Bracket complete, Nos. 201572B, 202407, 225461 and two 2102 .....
225433	10883	Bobbin Winder and Tension Bracket Base .....
225436	10883	Universal Bobbin Winder complete, Nos. 200056E, 200082D, 200299H, 202473, 202478, 225433, 225444, 225452 to 225456, 225458 to 225460, 225462, 228026 and two wood screws $\frac{3}{4}$ in., No. 13, R.H.B. ...

### FOOT LIFTER

227952	11156	Foot Lifter Lever (left or right) with 227954 .....
227678	11156	Foot Lifter Lever Chain, 48 in. long, with 202784 .....
227954	13976	Foot Lifter Lever Chain Hook (lower) .....
202784	13976	Foot Lifter Lever Chain Hook (upper) .....
225016	13976	Foot Lifter Lever Hinge Pin .....
227953	11156	" " " Stand with two wood screws 1 in., No. 13 .....
227955	11156	Foot Lifter Lever (left or right) complete, Nos. 225016, 227678, 227952 and 227953 .....

(Other Foot Lifter parts are listed with parts of machine head.)



## FOOT LIFTER

Furnished in place of 227955 when so ordered.

No.	Plate	Name
227060	10556	Foot Lifter Lever (on floor) with 225592 .....
227102	10556	Foot Lifter Lever 227060 with 227678 and two 204128 .....
227678	11156	Foot Lifter Lever Chain, 48 in. long, with 202784 .....
225592	13983	Foot Lifter Lever Chain Hook (lower) .....
202784	13976	Foot Lifter Lever Chain Hook (upper) .....
204128	10556	Foot Lifter Lever Stand with two wood screws 1 in., No. 13 .....
241620	13983	Foot Lifter Spring .....

## KNIVES

207801	10620	Knife .....
207802	10620	" .....
207803	10620	" .....
207804	10620	" .....
207805	10620	" .....
207806	10620	" .....
207807	10620	" .....
207808	10620	" .....

## KNIFE GRINDER

No.	Plate	Name
206977		Emery Wheel, 2 in. diameter ....
206962	11296	" " Driving Shaft .....
201510b	11296	" " " " Nut
204101	11296	" " " " " "
		Washer .....
206963	11296	Emery Wheel Driving Shaft Pulley with two 200403c .....
200403c	13981	Emery Wheel Driving Shaft Pulley Set Screw .....
206969	11296	Emery Wheel Washer (paper) ...
206964		Knife Grinder Frame with two 54897 .....
54897		Knife Grinder Frame Oil Cup ...
207029	11296	" Holder Slide Bracket with 200394c, 200457b and two 200473b
200457b	11296	Knife Holder Slide Bracket Ad- justing Screw .....
206966	11296	Knife Holder Slide Bracket Ad- justing Screw Slide Plate .....
200577b	10473	Knife Holder Slide Bracket Ad- justing Screw Slide Plate Screw
200394c	11296	Knife Holder Slide Bracket Set Screw .....
206967	11296	Knife Holder Slide Bracket Shaft..
207031	11296	" " " " Stop Col- lar with 200473b .....
200473b	11296	Knife Holder Slide Bracket Stop Collar Thumb Screw .....
200473b	11296	Knife Set Screw .....
207032	11296	Knife Grinder complete, Nos. 200577b, 201510b, 204101, 206962 to 206964, 206966, 206967, 206977, 207029, 207031 and two 206969..

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## WORK PLATE PLATFORM

No.	Plate	Name
213855	11772	Work Plate .....
200019E	-----	" " Arm Screw .....
202622	13983	" " " " Washer ...
213856	11772	" " Bracket .....
200189C	13983	" " " Screw .....
200189C	13983	" " Screw .....
213857	11772	" " Slide (back) .....
203301	11772	" " " (front) .....
213858	11772	Work Plate complete, Nos. 200019E, 202622, 203301, 213855 to 213857 and four 200189C .....

## WOOD BASE (FLAT)

227493	12153	Bed Hinge Plate 202259 with two wood screws $\frac{3}{4}$ in., No. 13U ....
225589	-----	Machine Cushion (leather) .....
227902	-----	Wood Base with two 227493, four each 225589 and wood screws $1\frac{1}{4}$ in., No. 10 .....

## WOOD BASE (OBLIQUE)

227903	-----	Wood Base with two 227493, four 225589 and nine wood screws $1\frac{1}{4}$ in., No. 10 .....
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## NUMERICAL LIST OF PARTS

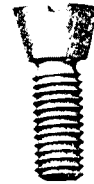
No.	Plate	Name
2102	10881	Bobbin Winder Tension Disc, for 225462 .....
10554	13976	Arm Position Pin .....
36578	12153	Oiler with 36579 .....
36579	12153	" Spout, $3\frac{1}{2}$ in. long, with 120117, for 36578 .....
41400	12153	Machine Rest Pin (wood) .....
54897	-----	Knife Grinder Frame Oil Cup, for 206964 .....
120117	-----	Oiler Spout Washer (leather), for 36579 .....
200008C	13976	Feed Dog Lever Post Support Screw
200008C	13976	Hook Post Screw .....
200010E	10245	Arm Base Screw .....
200010E	10245	" Screw .....
200019E	-----	Work Plate Arm Screw, for 213858
200024C	13304	Feed Dog Lever Post Screw .....
200026B	11291	Knife Bar Position Guide Pinch Screw, for 200890 .....
200028B	13979	Knife Bar Position Guide Screw, for 213629 .....
200038C	10245	Feed Bar Slide Block Crank Pinch Screw, for 234084 .....
200038C	10245	Feed Driving Connection Crank Pinch Screw, for 202293 .....
200043C	10246	Feed Driving Rock Shaft Center Set Screw .....
200043C	10246	Feed Lifting Rock Shaft Center Set Screw .....
200043C	10246	Knife Bar Sleeve Set Screw, for 200888 .....
200047D	13981	Knife Bar Throw-out Spring Screw (lower), for 213629 .....
200049E	13304	Feed Driving Connection Pinch Screw, for 234015 .....
200049E	13304	Feed Lifting Connection Pinch Screw, for 234017 .....
200054E	10246	Feed Dog Lever Post Support Screw, for 241504 .....
200056E	10882	Bobbin Winder Stop Latch Screw, for 225436 .....
200076D	13302	Bobbin Case Lever Driving Block Screw .....
200076D	13302	Knife Screw, for Machine No. 51W45 .....

PLATE 10245—FULL SIZE

200010



200545



200462



200570



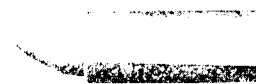
200577



202135



202305



202276



200205



200038



200139



200196



201518



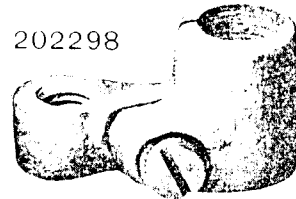
201014



202005



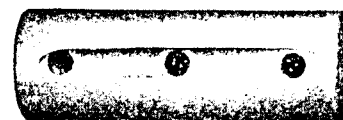
202298



201525



202321



200346



PLATE 10246—FULL SIZE

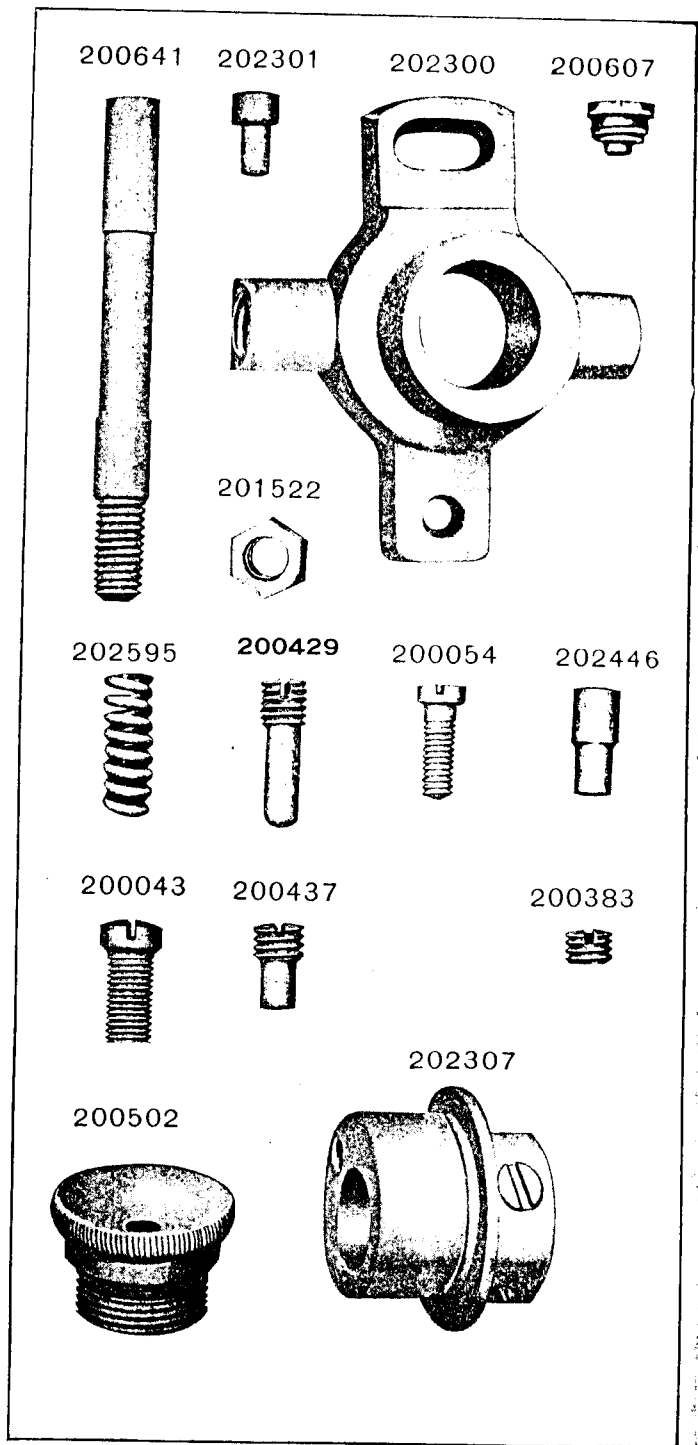
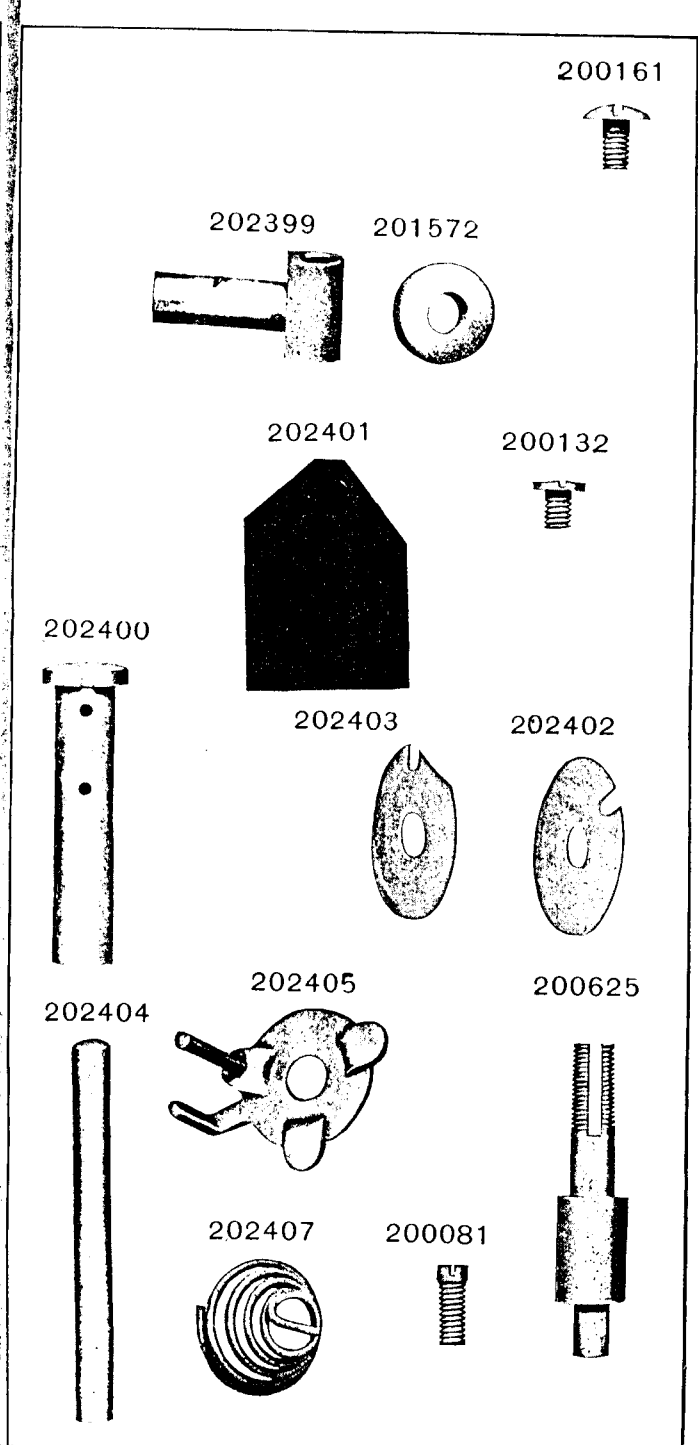


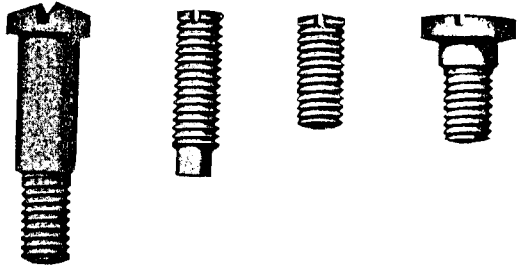
PLATE 10247—FULL SIZE



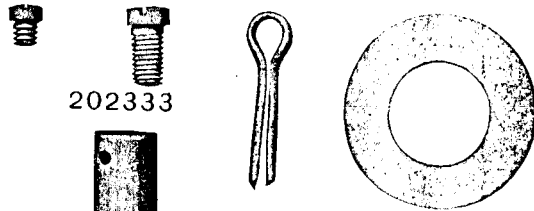
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PLATE 10248—FULL SIZE

200224 200428 200335 200262



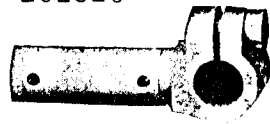
200141 200086 202302 203172



202333



202329



200352

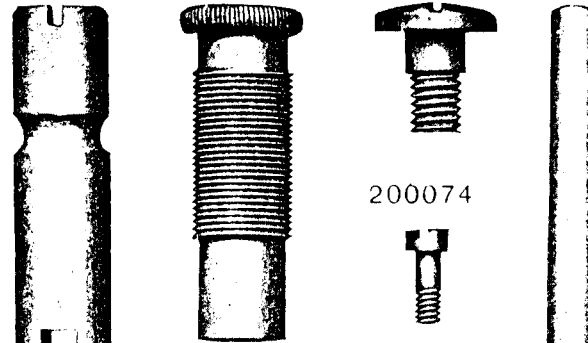


200363



PLATE 10249—FULL SIZE

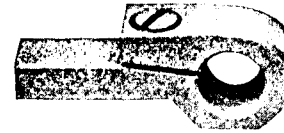
202337 200492 200260 202346



200074



202338



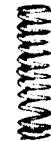
200347



200653



202342



207072



PLATE 10252—FULL SIZE

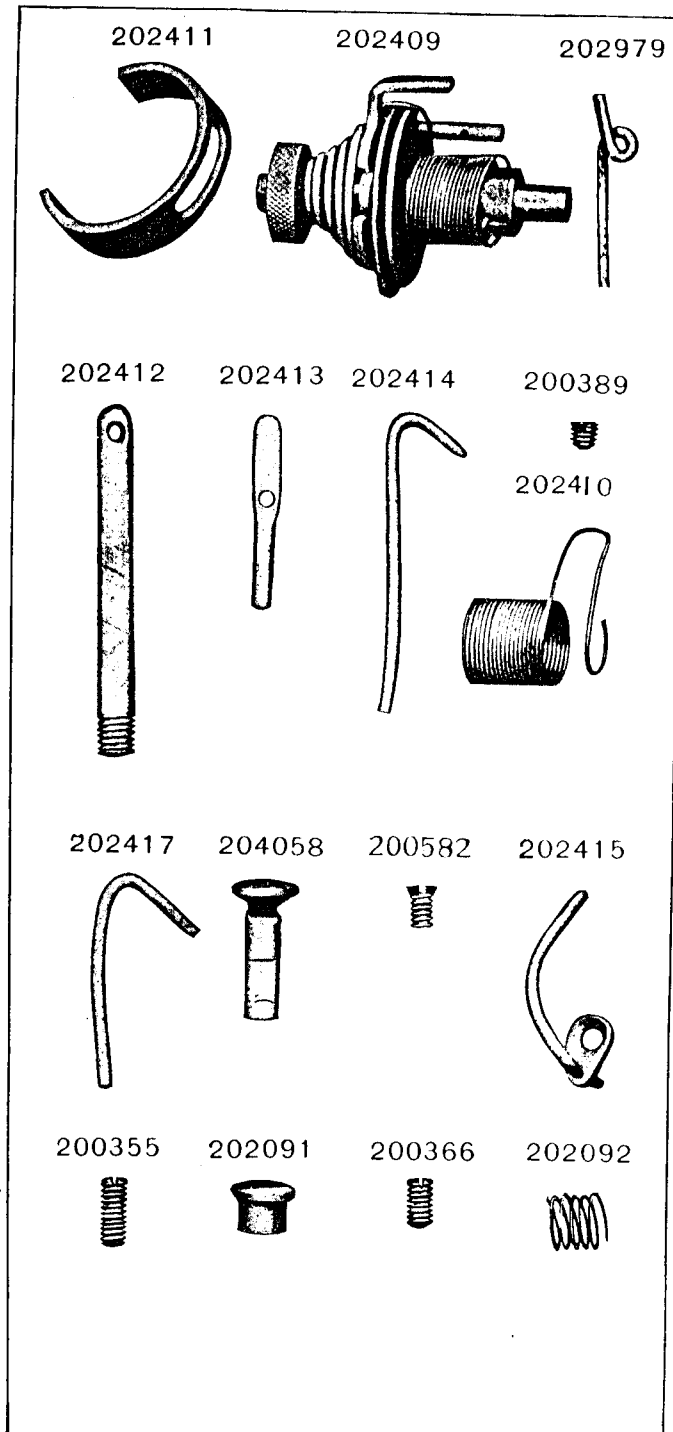


PLATE 10284—FULL SIZE

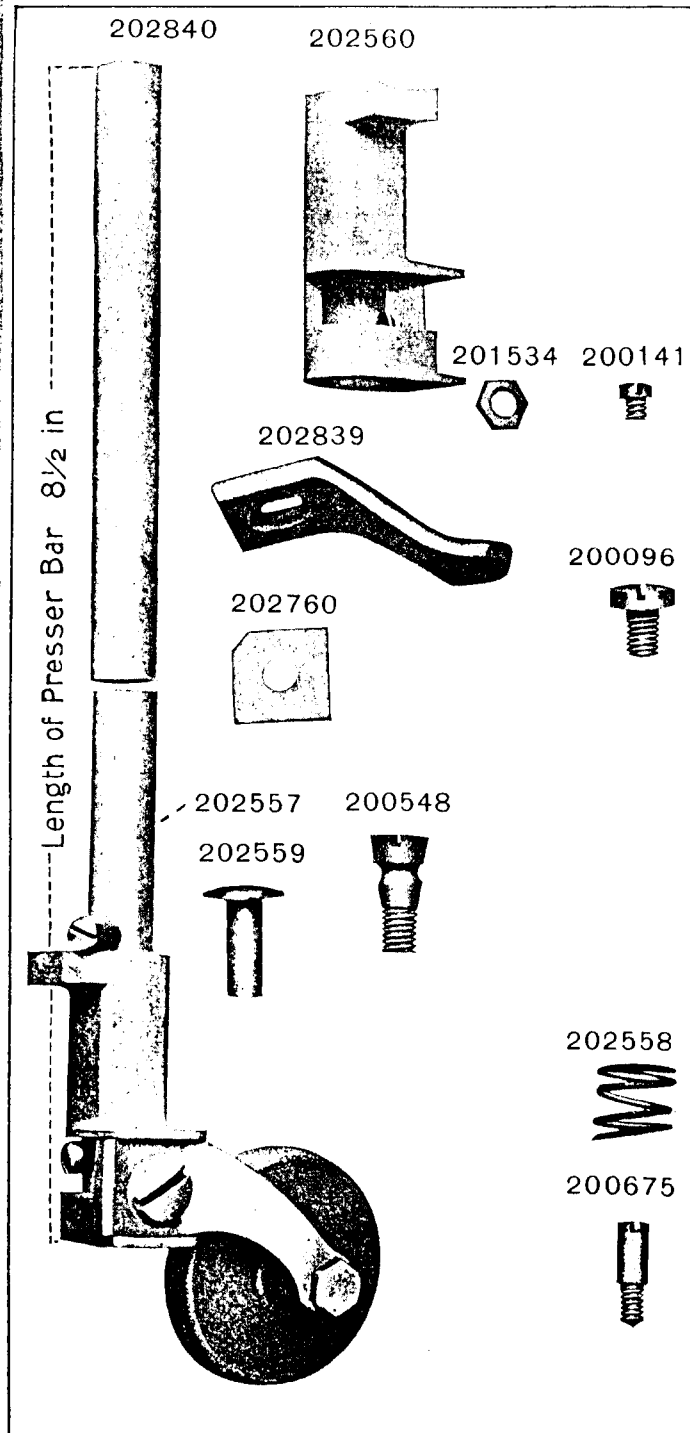


PLATE 10373—FULL SIZE

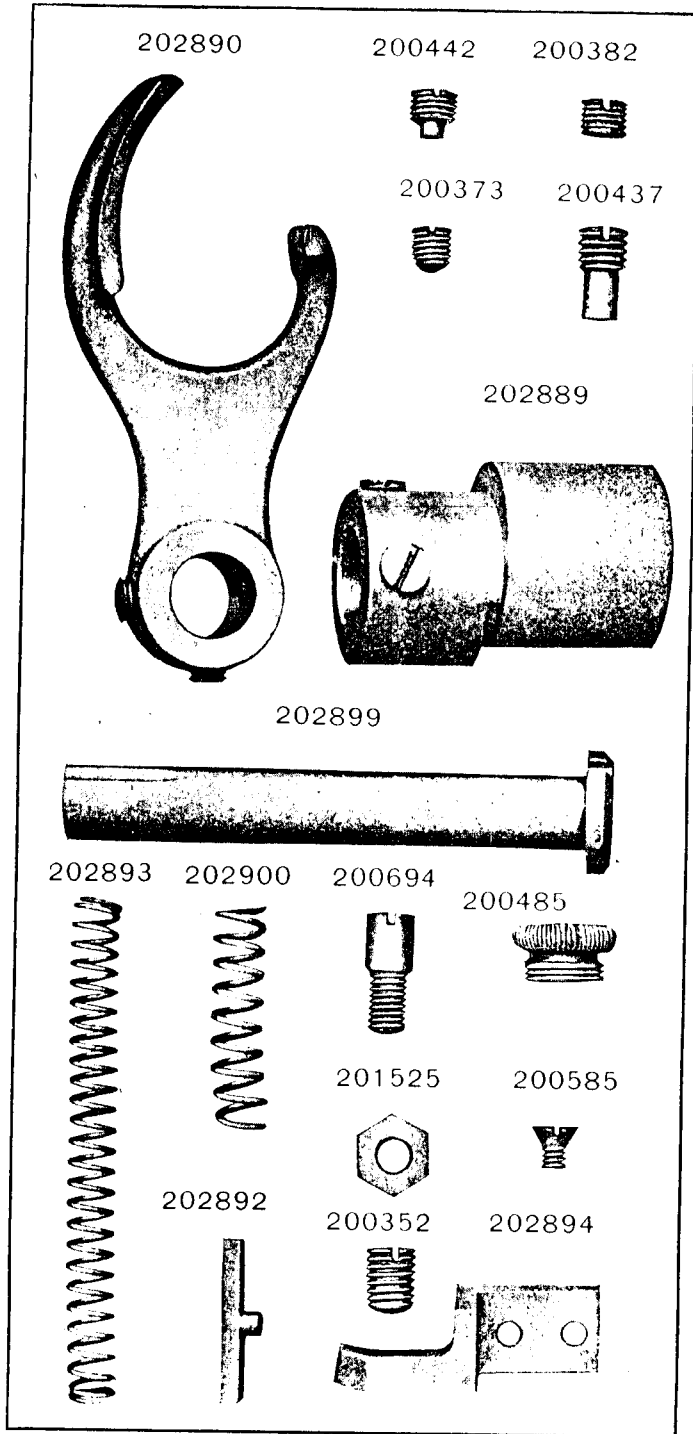


PLATE 10473—FULL SIZE

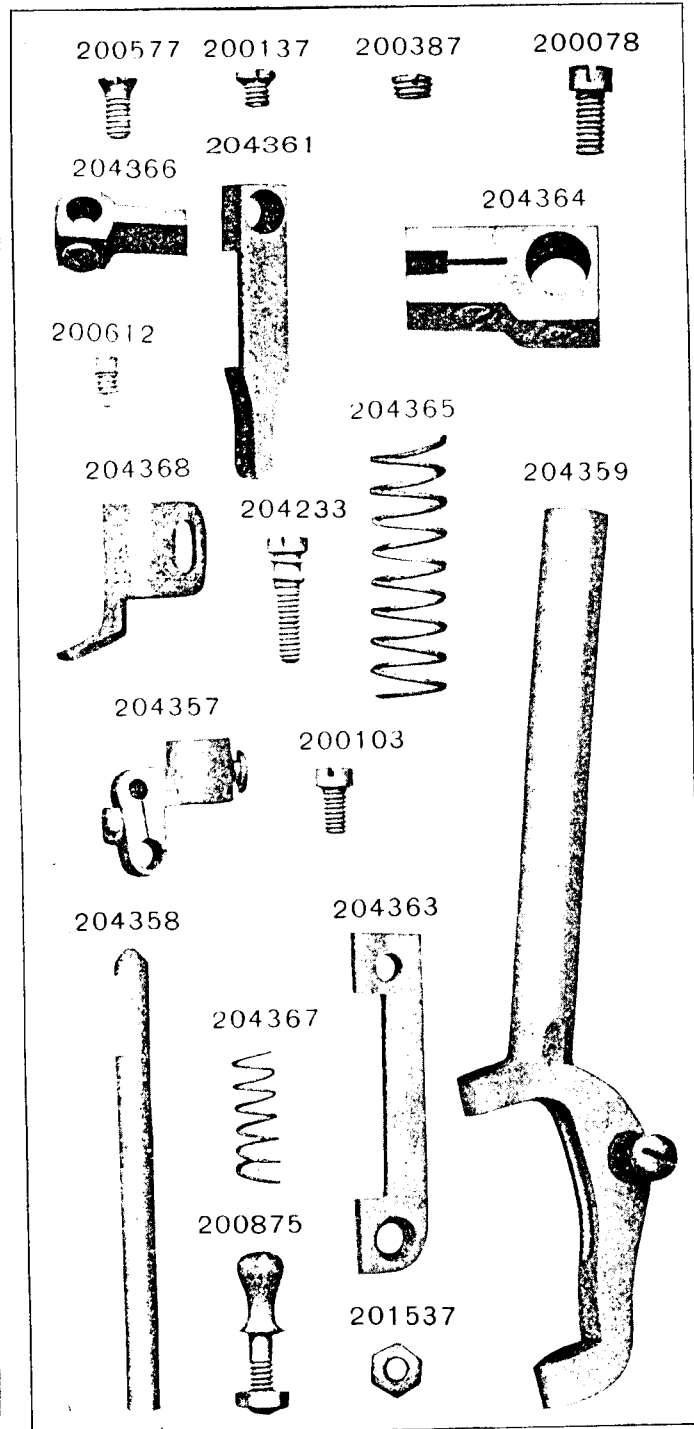


PLATE 10556—ONE-FOURTH SIZE

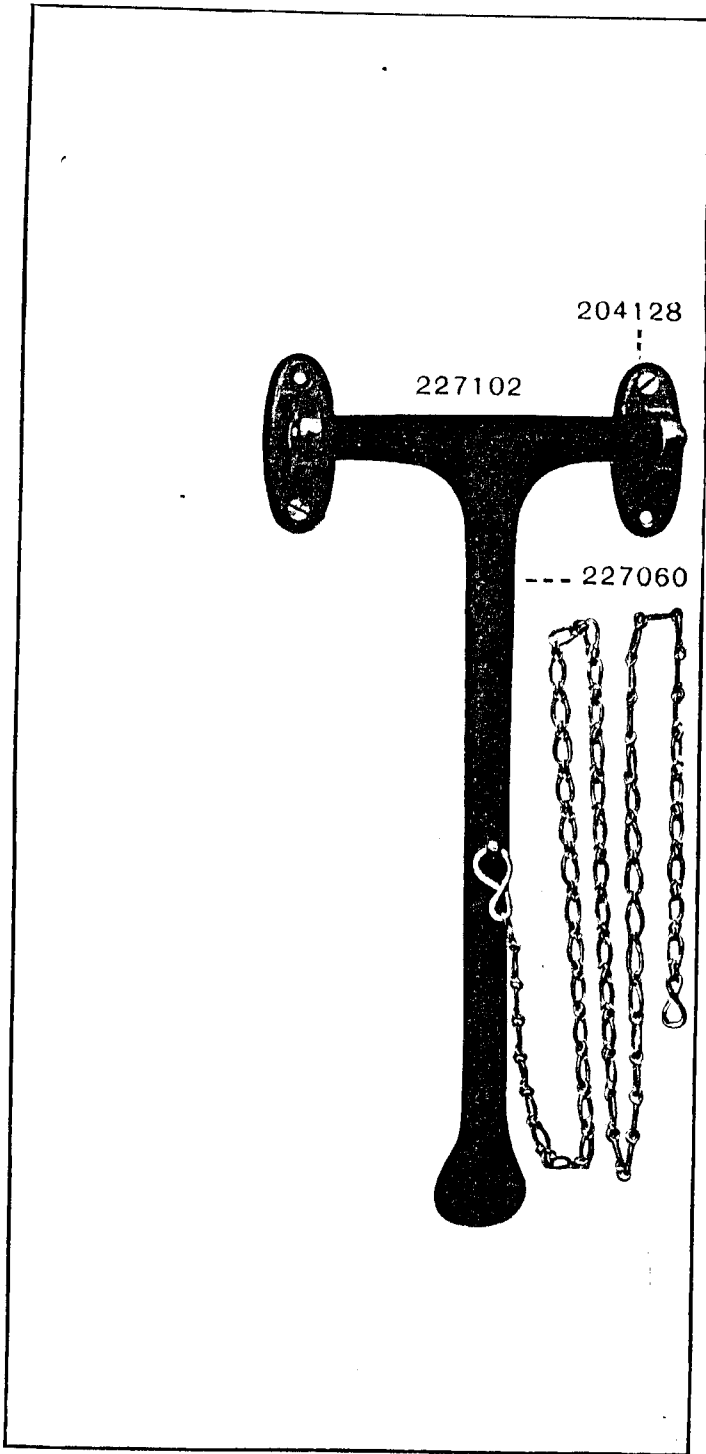


PLATE 10620—FULL SIZE

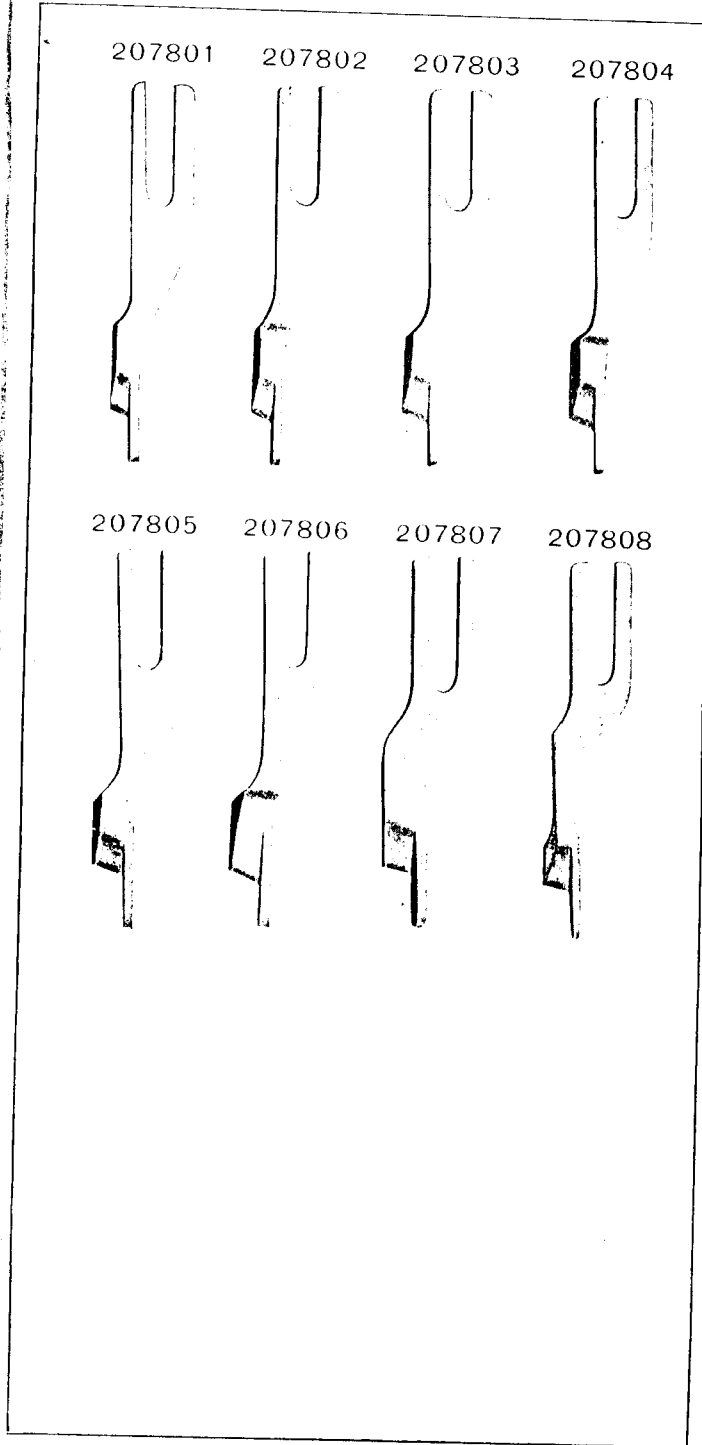




PLATE 10668—FULL SIZE

200475 200575 200374 200583



200378 200368 200079 200842



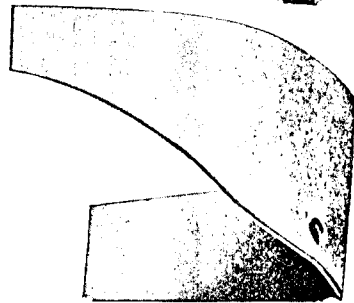
202619 202355 202872



202036 204925 204059 204235



202332

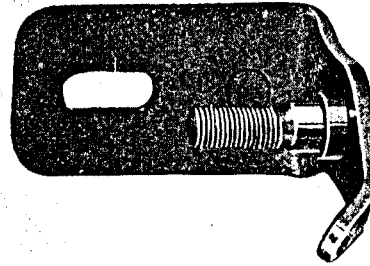


210554

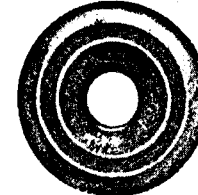


PLATE 10881—FULL SIZE

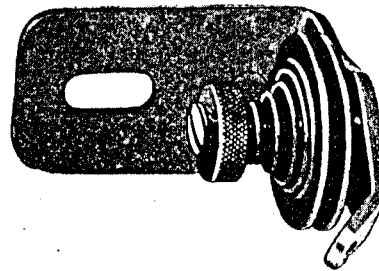
225461 200082 202104



2102



225462



202407



201499



201572



PLATE 10882—FULL SIZE

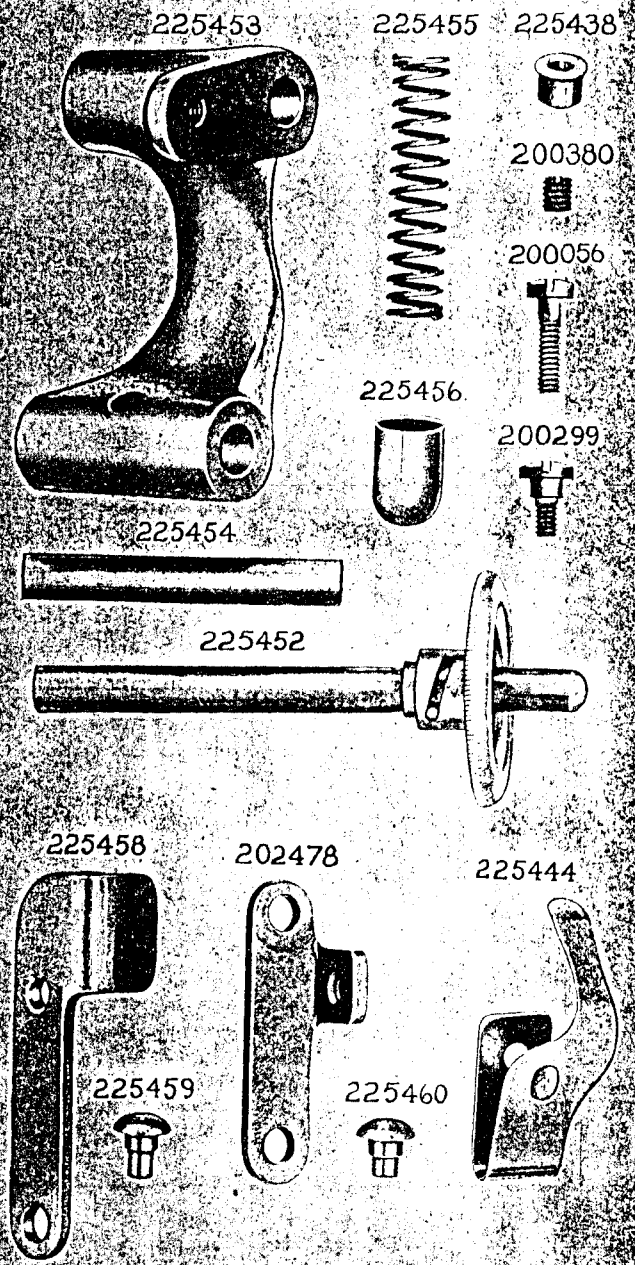
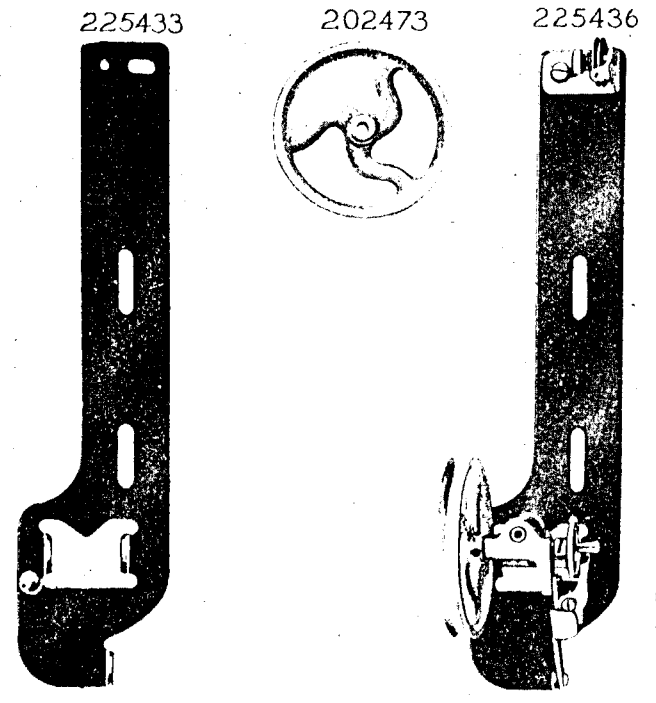


PLATE 10883 ONE-FOURTH SIZE



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PLATE 10947—ONE HALF SIZE

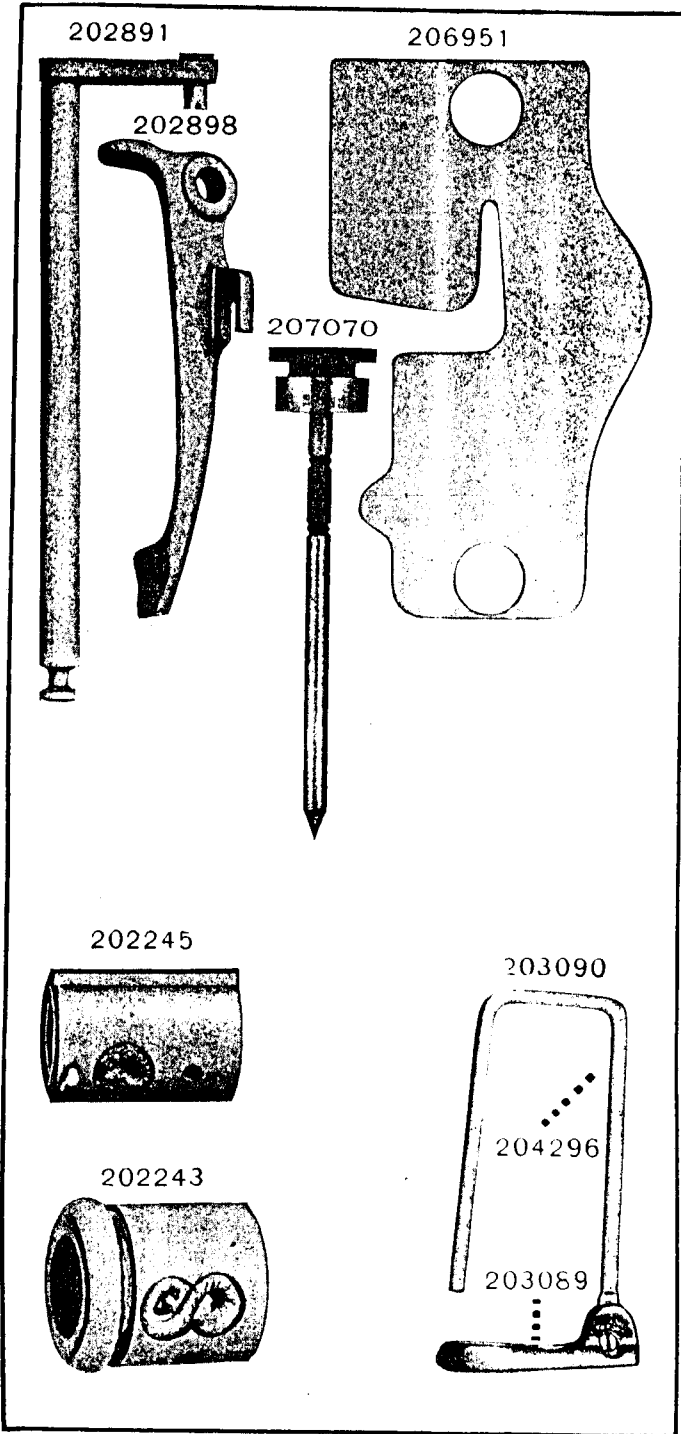


PLATE 11156—ONE-FOURTH SIZE

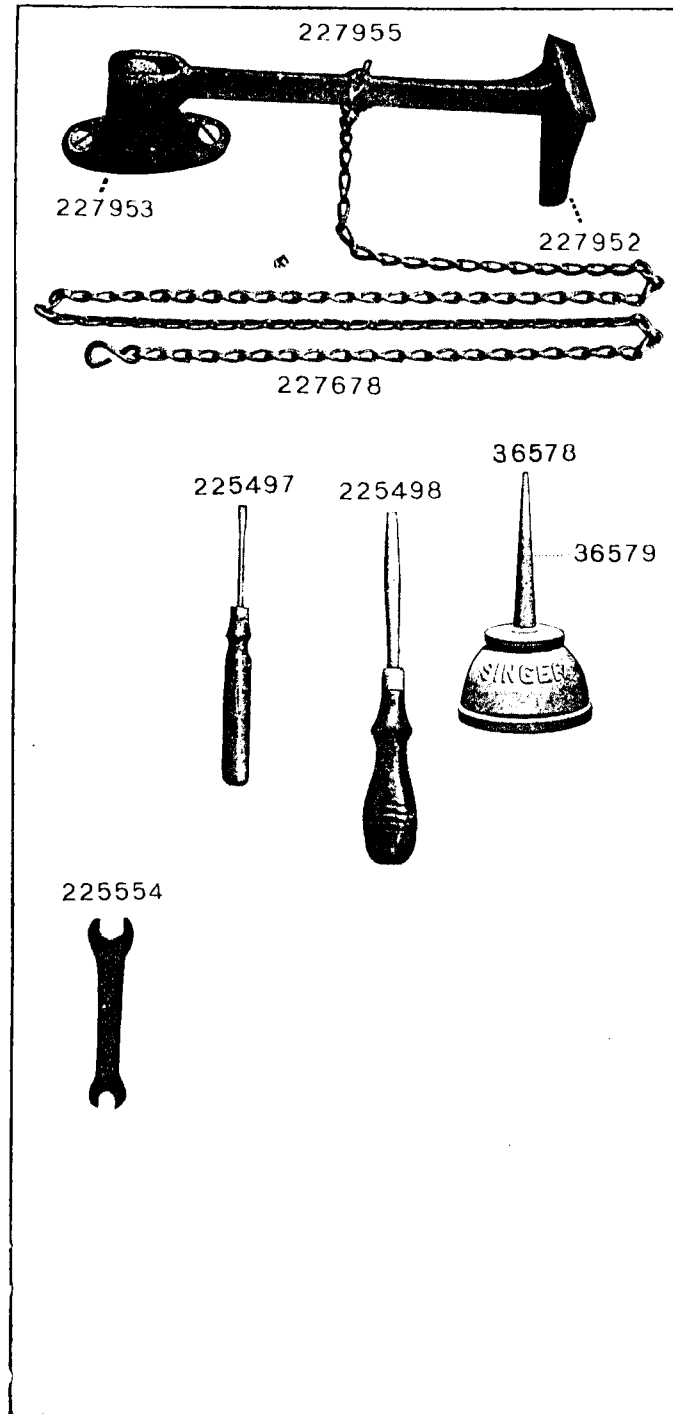


PLATE 11283—ONE-HALF SIZE

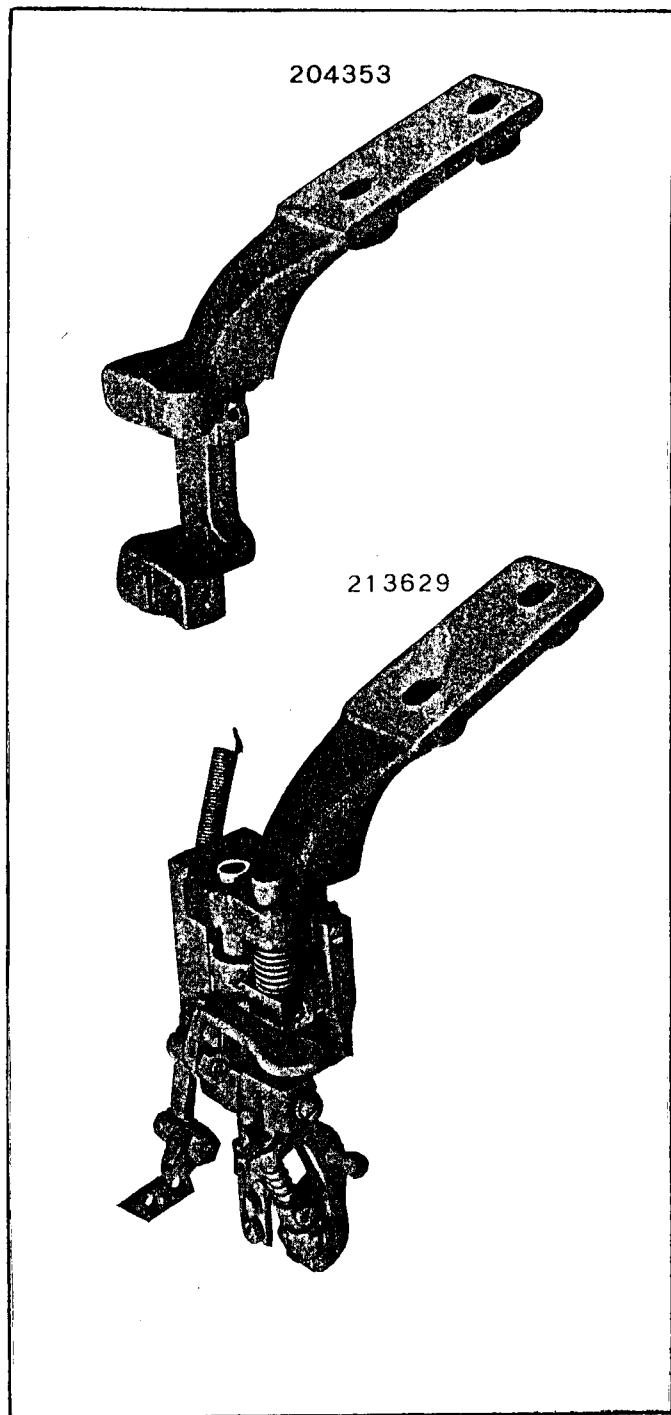
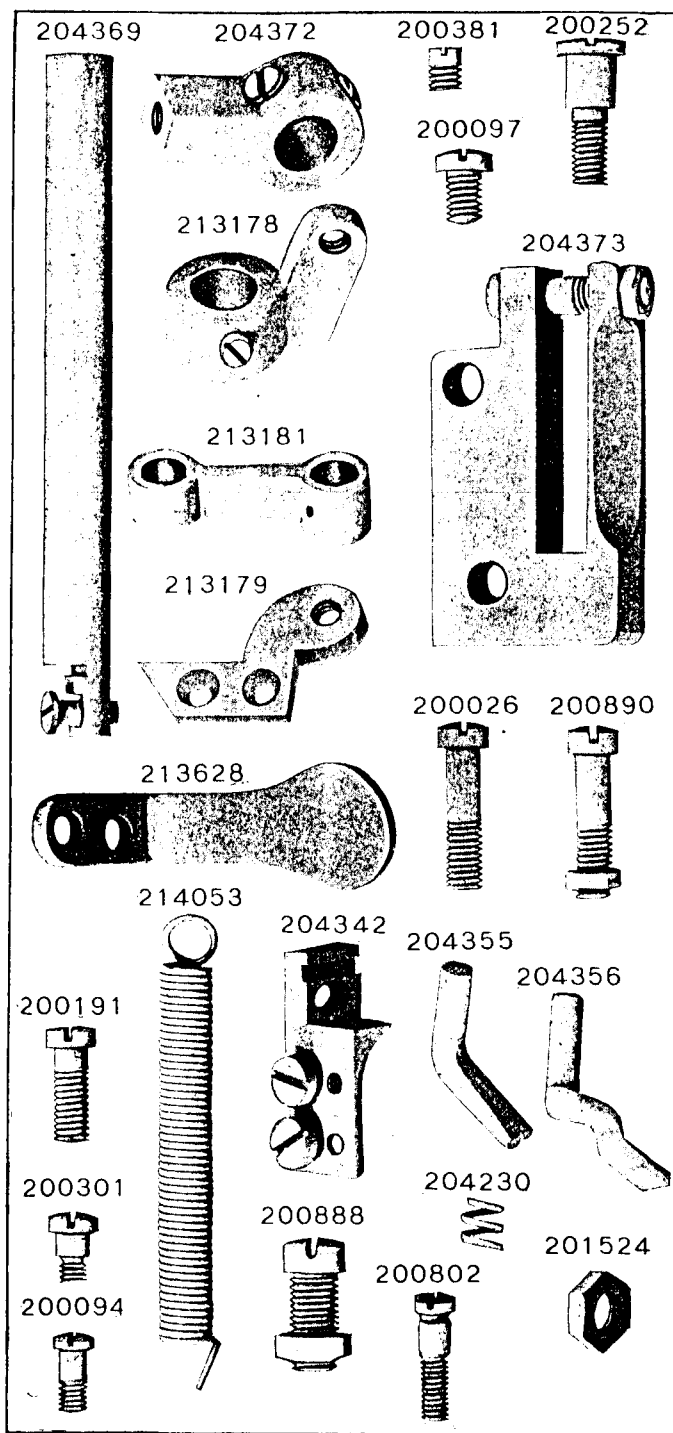


PLATE 11291—FULL SIZE



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PLATE 11296—ONE-HALF SIZE

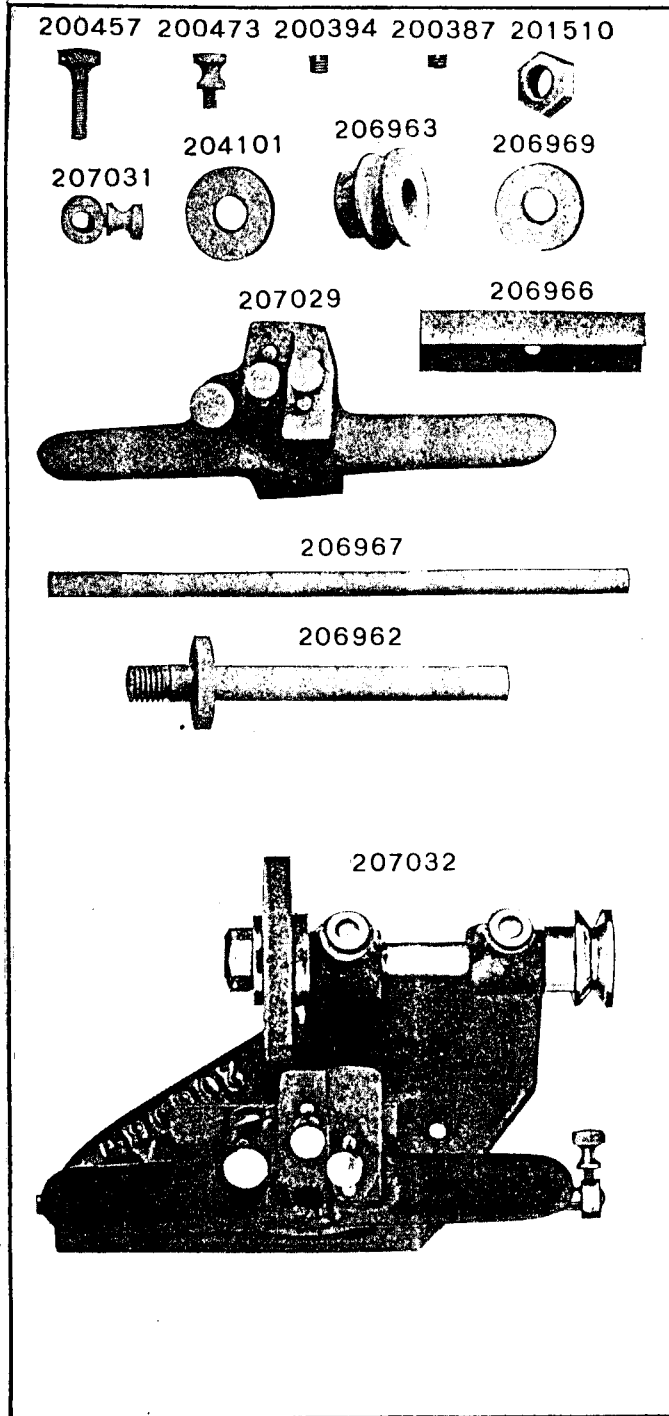


PLATE 11772—ONE-FOURTH SIZE

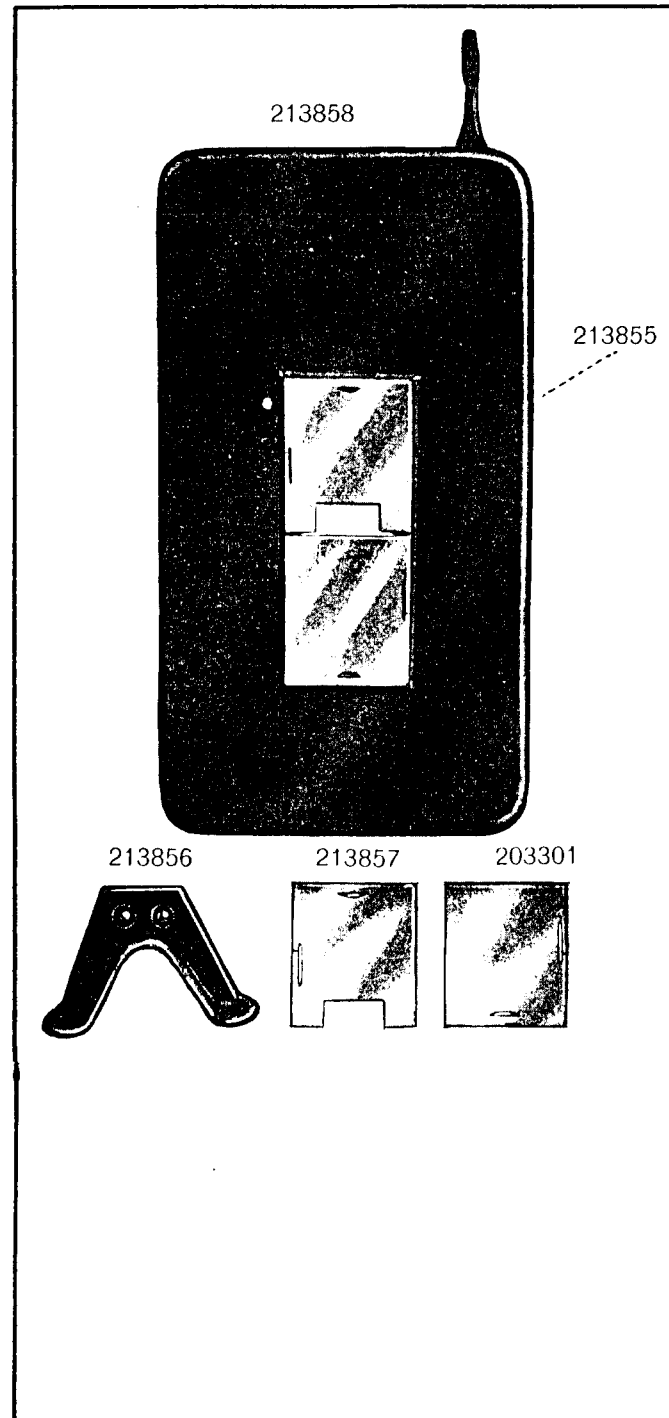


PLATE 12153—ONE-HALF SIZE

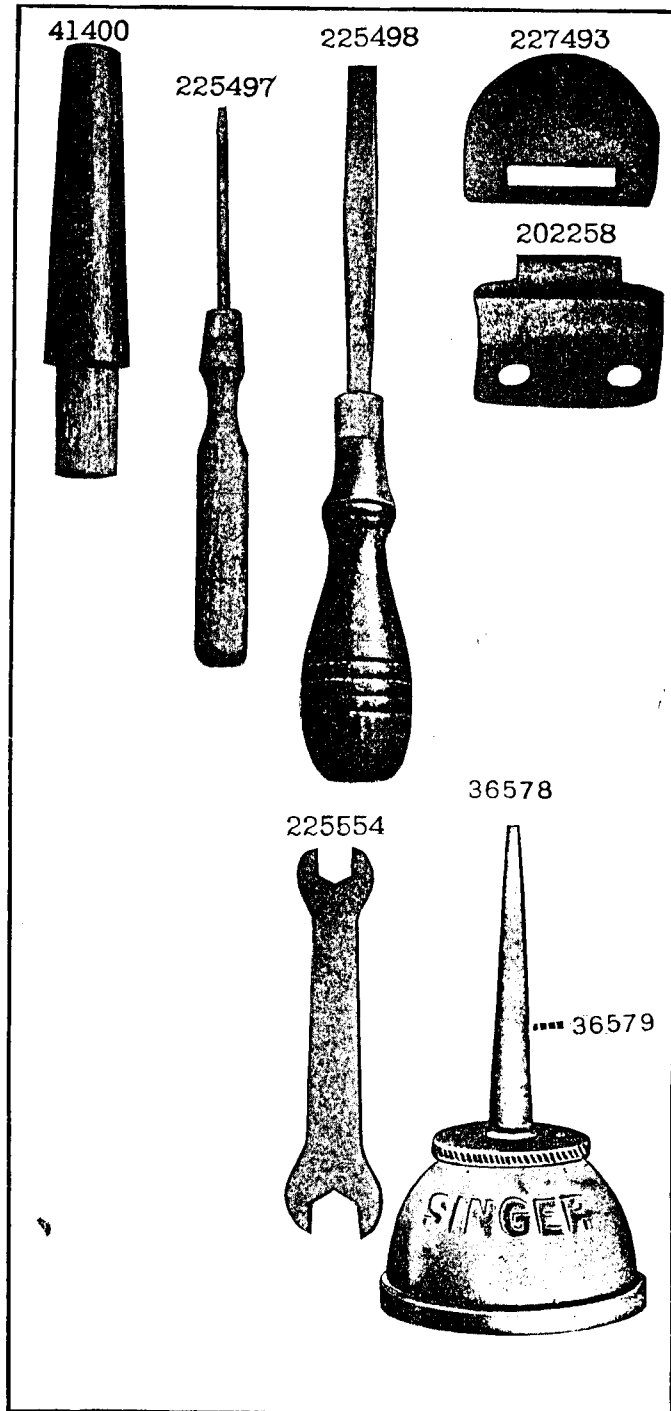


PLATE 13301—ONE-FOURTH SIZE

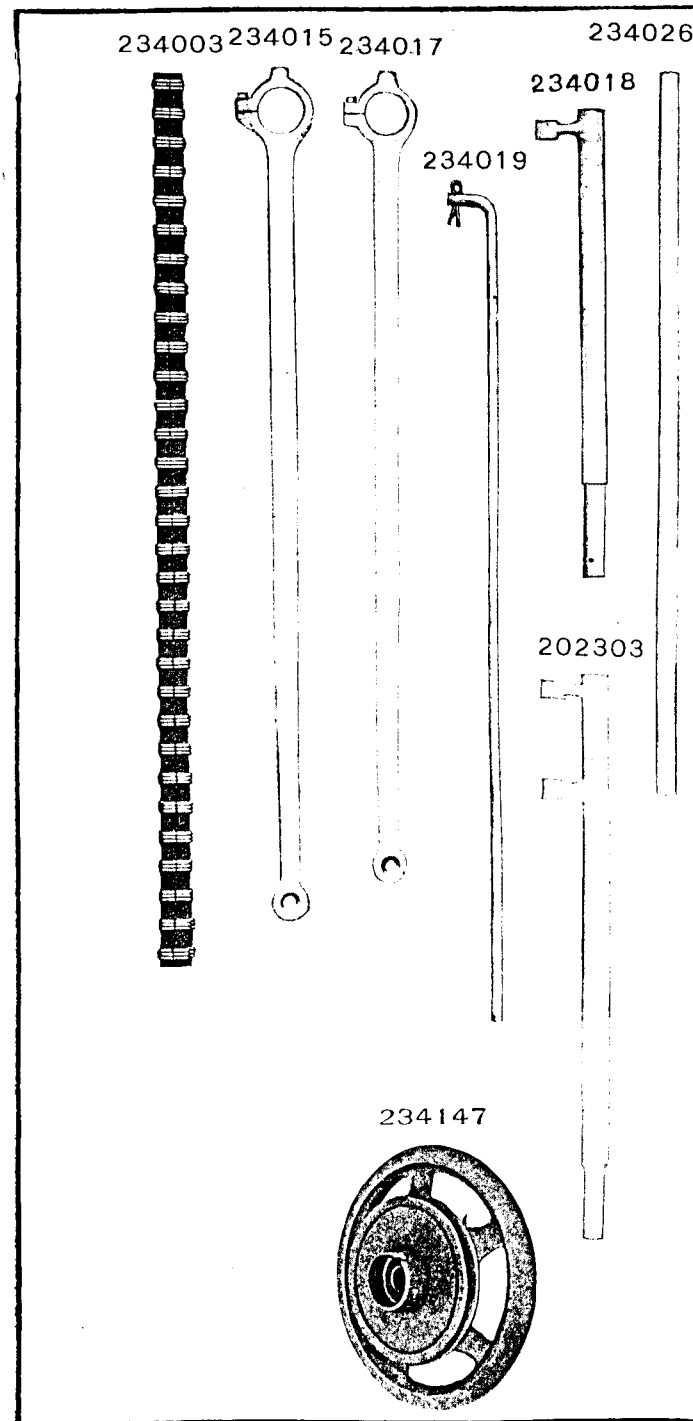


PLATE 13302-FULL SIZE

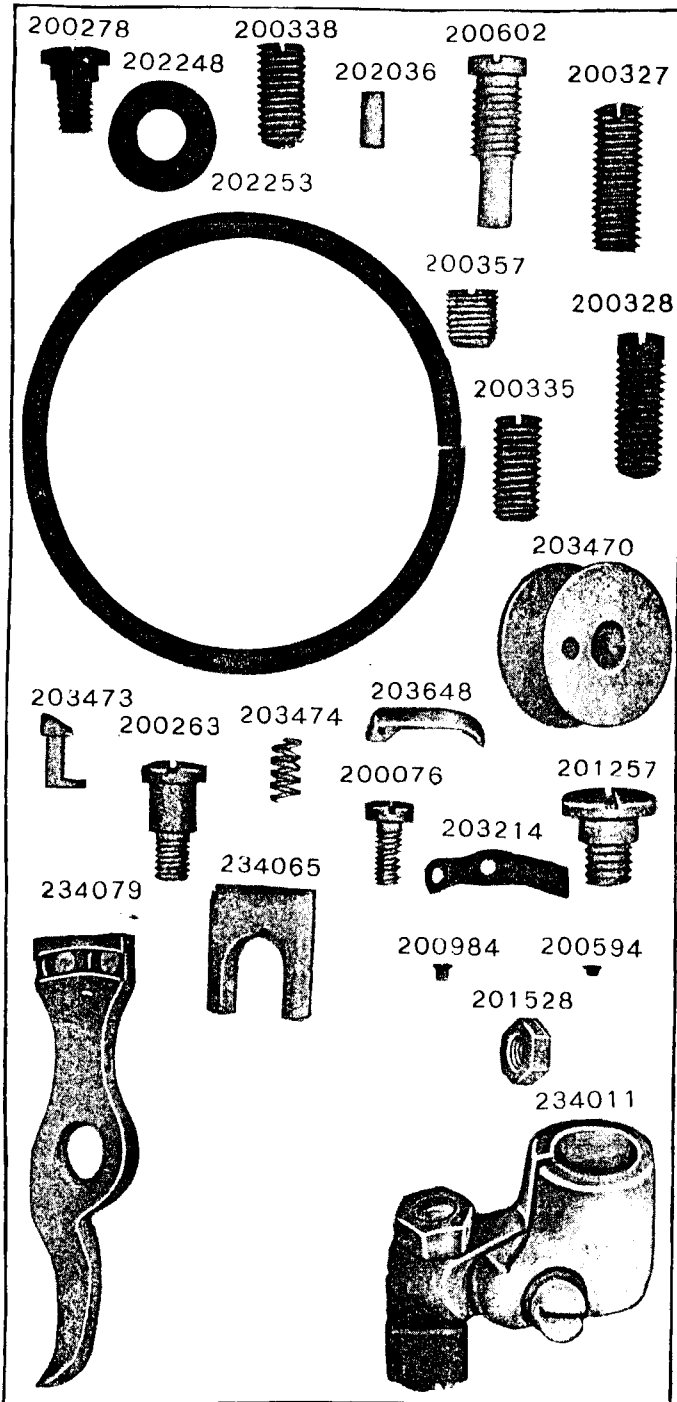


PLATE 13304-FULL SIZE

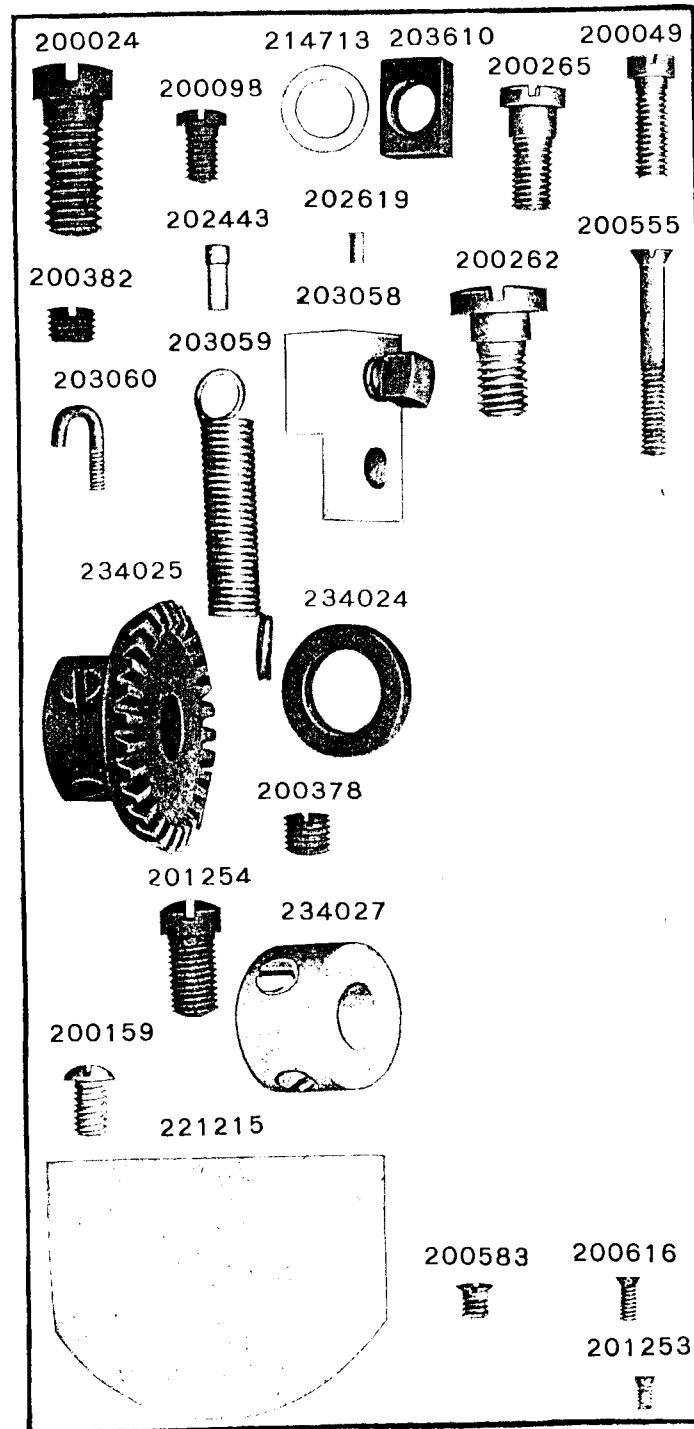


PLATE 13306-ONE-HALF SIZE

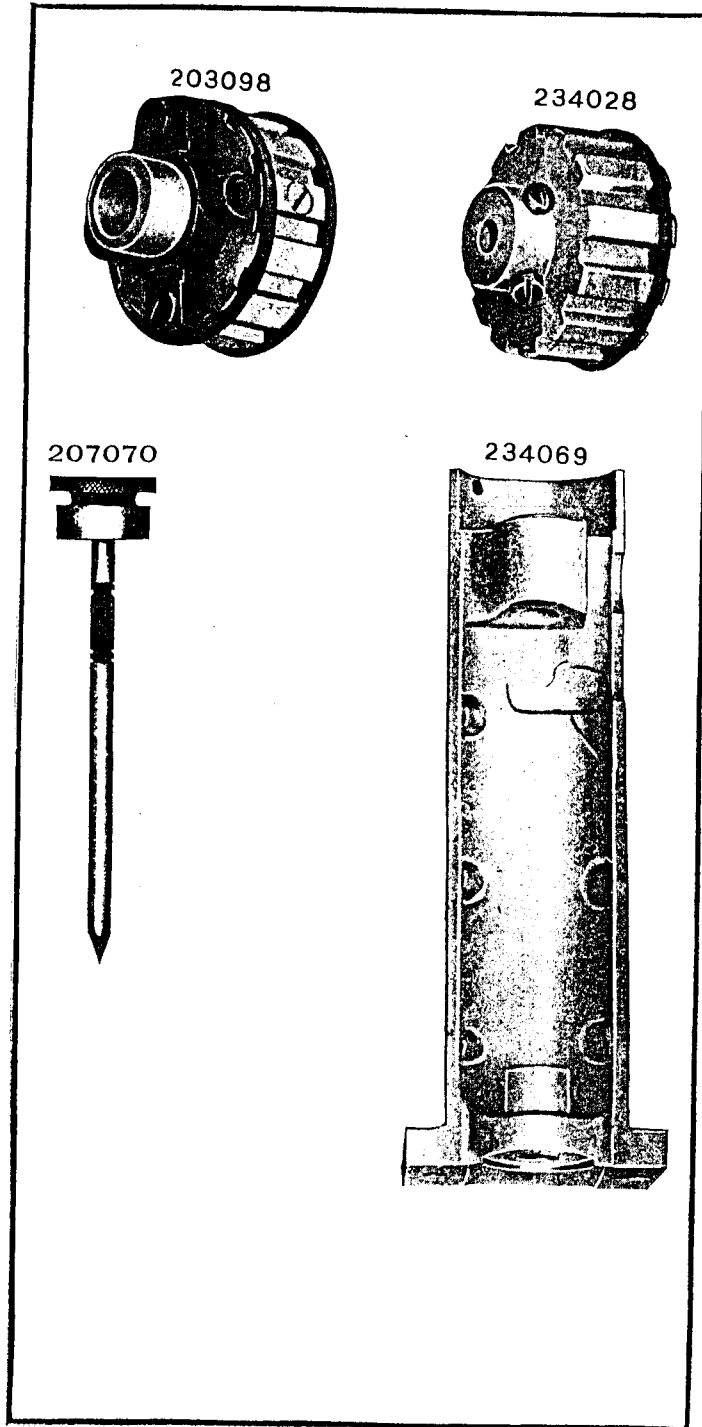


PLATE 13976-FULL SIZE

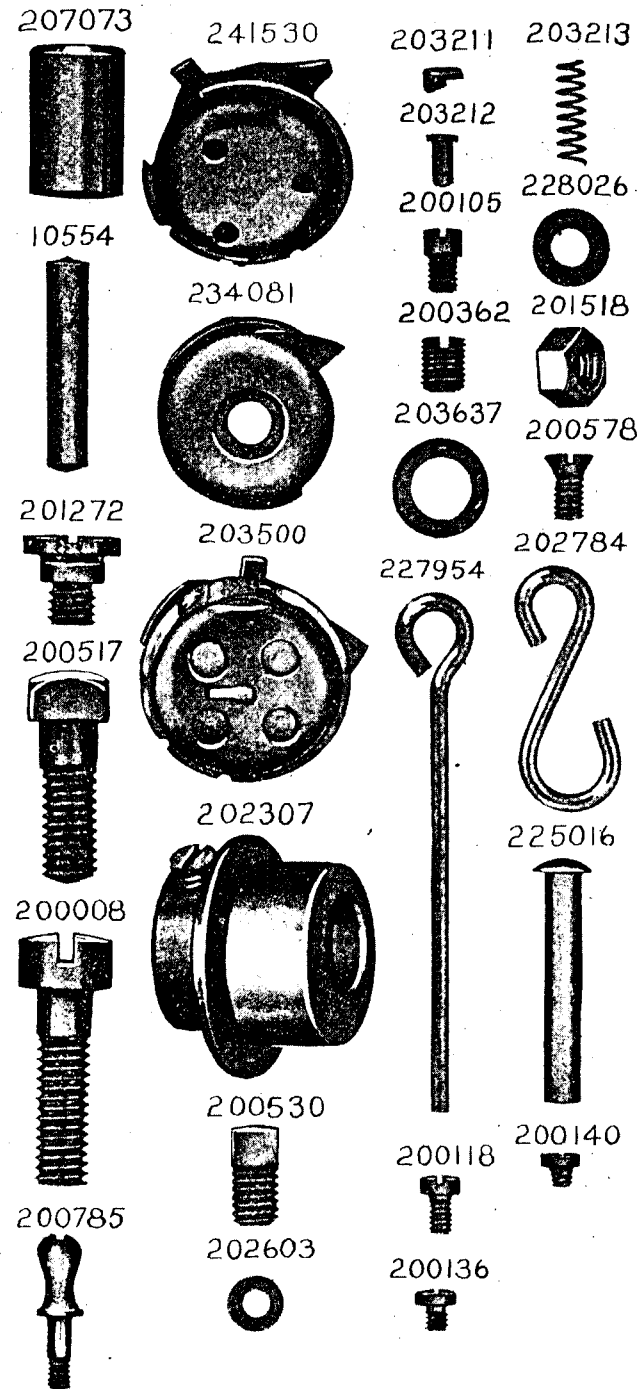
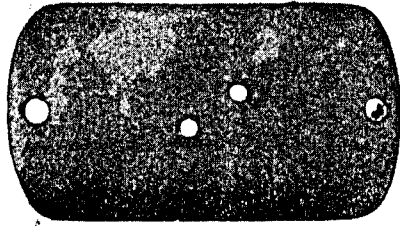


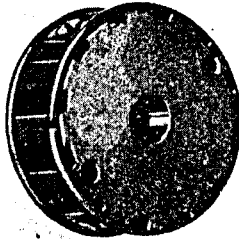


PLATE 13977—ONE-HALF SIZE

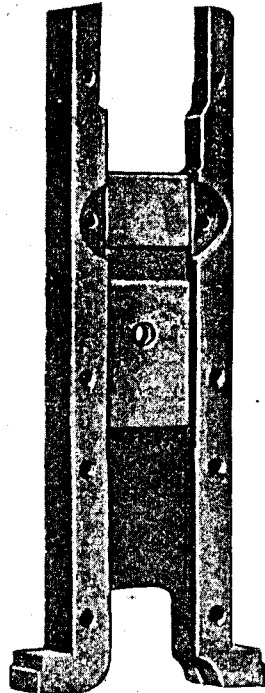
203091



202635



241503



234010



241502



241501  
241621

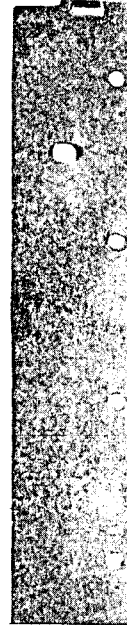


PLATE 13978—ONE-HALF SIZE

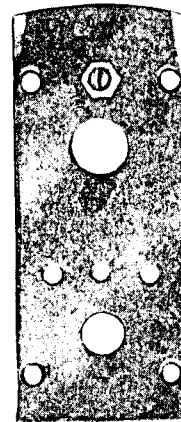
221209



241507



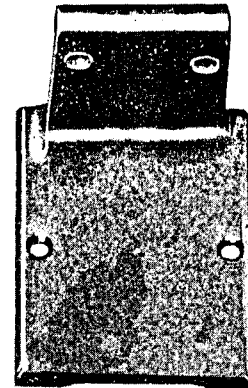
241522



241506



221212



241505



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PLATE 13979—FULL SIZE

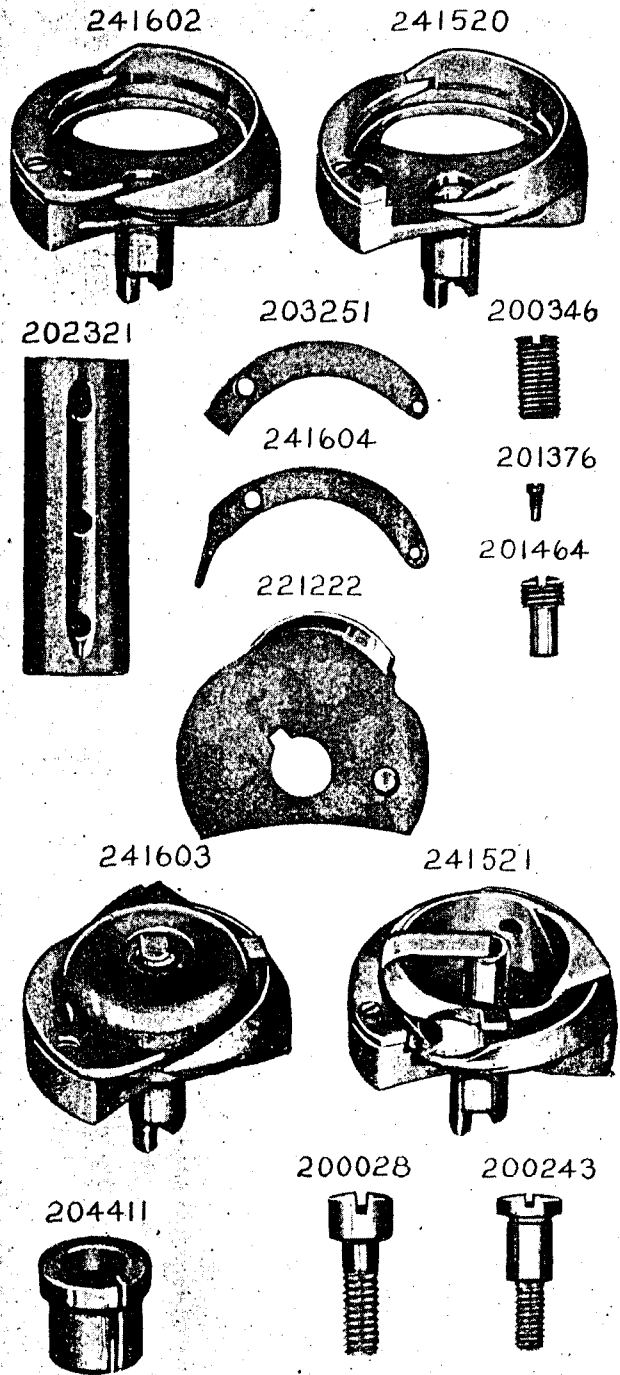


PLATE 13980—ONE-HALF SIZE

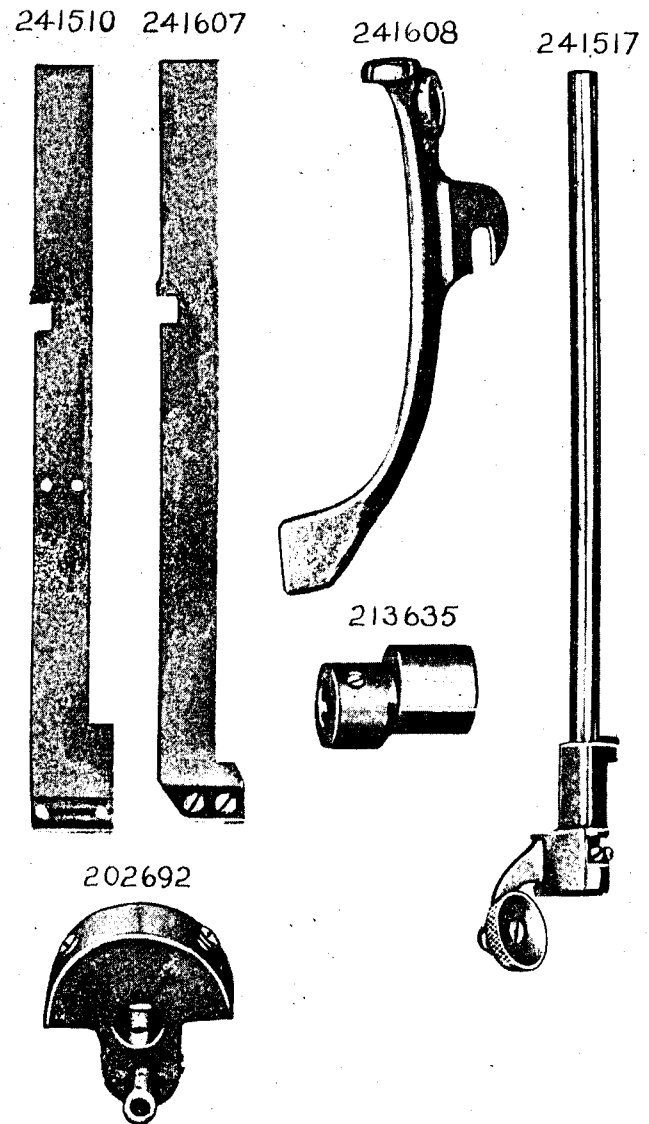


PLATE 13981—FULL SIZE

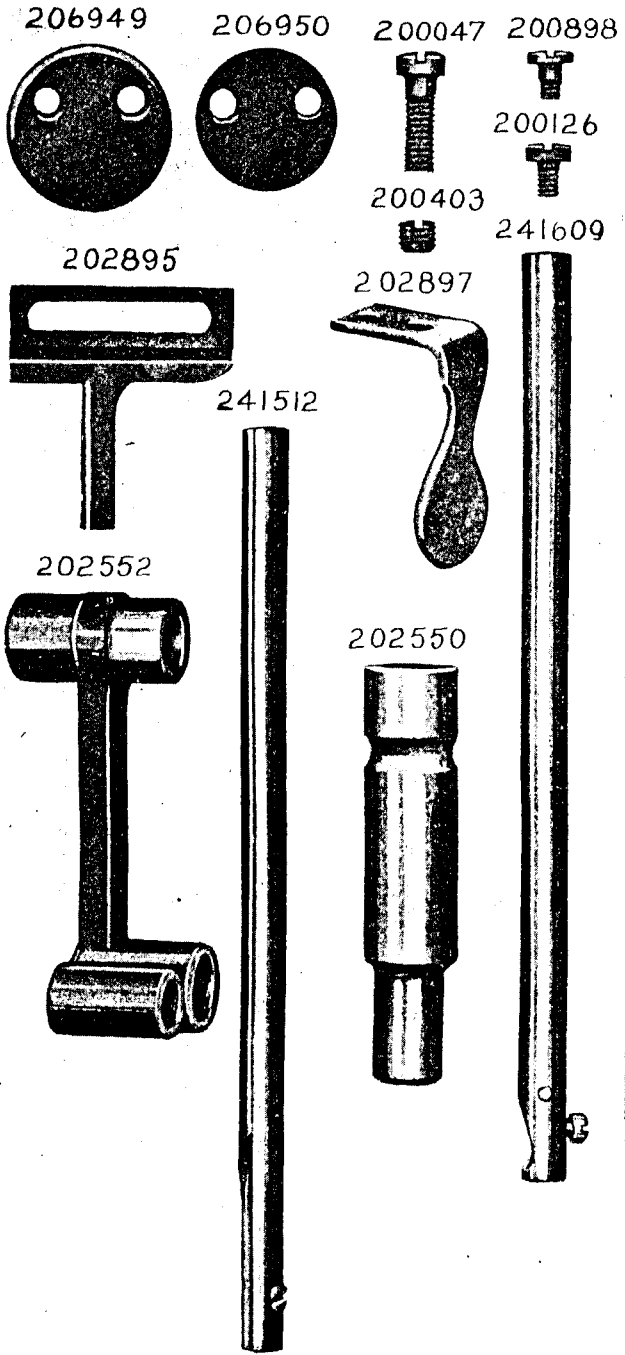
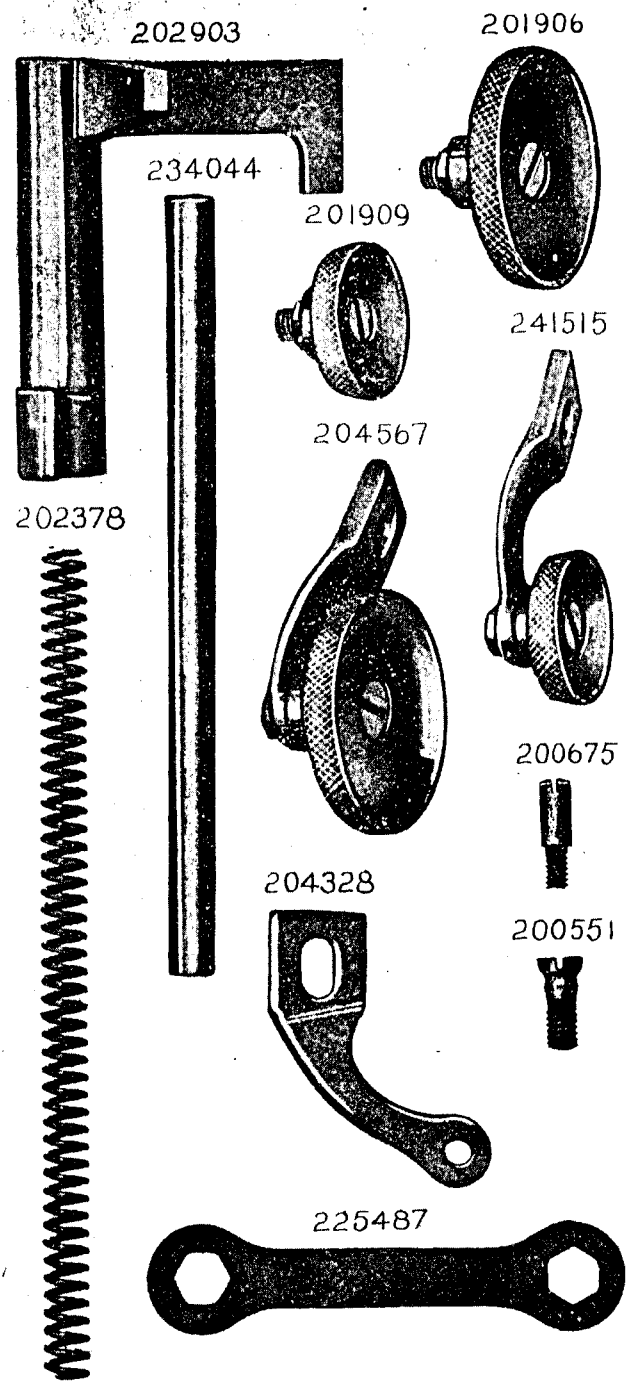


PLATE 13982—FULL SIZE

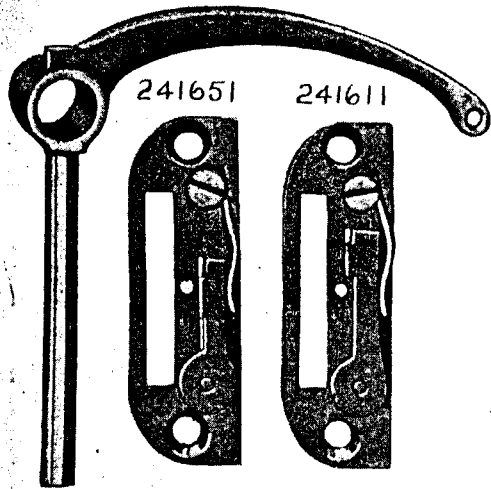


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PLATE 13983—FULL SIZE

241518

200084



241651

241611



212655



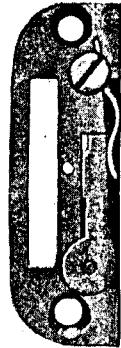
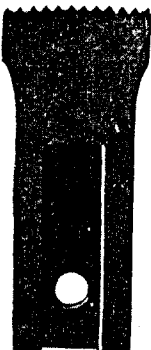
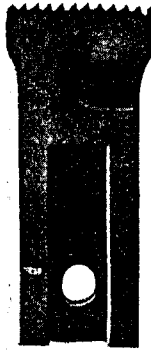
212658



213920

212637

241523



215772

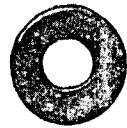


200587



212664

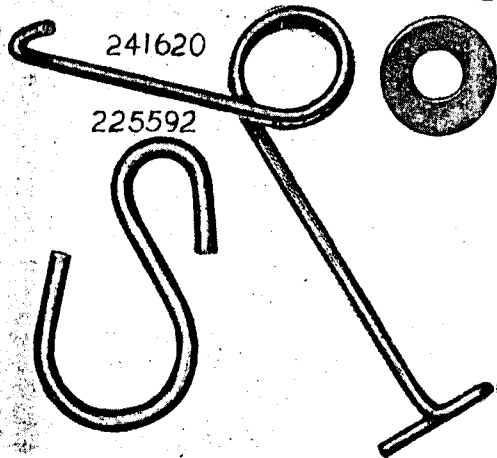
202622



200178



200189



241620

225592