

**SINGER**  
**72W12**

Form 1619w—Revised  
July, 1930  
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# LIST OF PARTS



MACHINE NO. 72w12

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THE SINGER MANUFACTURING COMPANY

## INSTRUCTIONS FOR OILING

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

"TYPE D" OIL is stainless.

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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 upwards are Numbers of Machine Parts.

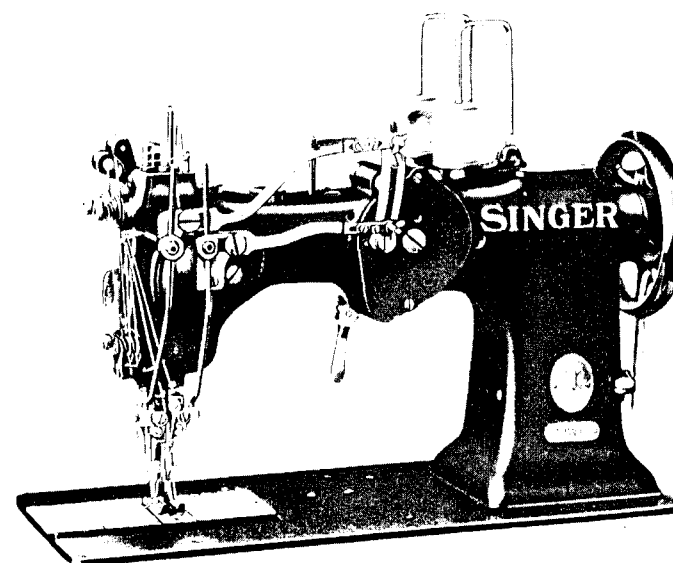
The figures in the second column refer only to the plate in which the illustration of the part is shown and are **NOT TO BE USED** in ordering.

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. 72w12

For Ornamenting Shirt Waists, Corners of Handkerchiefs,  
etc. with  $\frac{1}{8}$  in. Hemstitch Openings in Straight or  
Curved Lines or Circles. Has Forward Feed

| No.     | Plate | Name                                                          |
|---------|-------|---------------------------------------------------------------|
| *234705 | —     | Arm with 202036, 234706, two each<br>200346c and 213222 ..... |
| 204163  | 12344 | Arm Cap .....                                                 |
| 200278H | 12311 | " " Screw .....                                               |
| 202248  | 12307 | " " " Washer .....                                            |
| 213257  | 13401 | " Plate .....                                                 |
| 200571B | 11090 | " " Screw (2) .....                                           |
| 204235  | —     | " Position Pin (2) .....                                      |
| 200010E | 13402 | " Screw (3) .....                                             |
| 202005  | 12308 | " " Washer (3) .....                                          |
| 203237  | 11636 | " Shaft .....                                                 |
| 204801  | 13401 | " " Bushing (back) with<br>202260 .....                       |

| No.     | Plate | Name                                                                                   |
|---------|-------|----------------------------------------------------------------------------------------|
| 202260  | —     | Arm Shaft Bushing (back) Oil Packing (wick) .....                                      |
| 200352c | 11635 | Arm Shaft Bushing (back) Set Screw .....                                               |
| 204802  | 13401 | Arm Shaft Bushing (front) with 202036 and 202260 .....                                 |
| 202260  | —     | Arm Shaft Bushing (front) Oil Packing (wick) .....                                     |
| 200502B | 11635 | Arm Shaft Bushing (front) Oil Packing Thumb Screw .....                                |
| 202036  | 13402 | Arm Shaft Bushing (front) Position Pin .....                                           |
| 200352c | 11635 | Arm Shaft Bushing (front) Set Screw .....                                              |
| 204804  | 13401 | Arm Shaft Connection with four 200054e (2) .....                                       |
| 200054E | 12307 | Arm Shaft Connection Screw ....                                                        |
| 234738  | 13406 | Auxiliary Piercer .....                                                                |
| 234714  | 13406 | " " Holder with 200117F and 200389c .....                                              |
| 213261  | 11097 | Auxiliary Piercer Holder Bracket with two 200118F .....                                |
| 200118F | 13402 | Auxiliary Piercer Holder Bracket Screw .....                                           |
| 200117F | 11097 | Auxiliary Piercer Holder Screw ..                                                      |
| 200389c | 11642 | " " Set Screw .....                                                                    |
| 204174  | 11636 | Balance Wheel, 5½ in. diam. (belt groove 2¾ in. diam.), with 200328c and 200335c ..... |
| 200062H | 12311 | Balance Wheel Adjusting Screw ..                                                       |
| 200328c | 12311 | " " Position Screw ....                                                                |
| 200335c | 12311 | " " Set Screw .....                                                                    |
| *213235 | —     | Bed with 203376, 202349, 213191, two each 200362c, 200516E, 200840E and 202299 .....   |
| 202258  | 12153 | Bed Hinge Connection (2) .....                                                         |
| 200570E | 12311 | " " " Screw (4)....                                                                    |
| 203329  | 13401 | " Slide (back) .....                                                                   |
| 203301  | 13401 | " " (front) .....                                                                      |
| 213710  | 11635 | Bobbin .....                                                                           |
| 203210  | 12312 | " Case Base with 202056, 203211 to 203213 and 203216 ...                               |
| 203211  | 12312 | Bobbin Case Base Latch .....                                                           |
| *202056 | —     | " " " " Pin .....                                                                      |
| 203212  | 12312 | " " " " Plunger ..                                                                     |
| 203213  | 12312 | " " " " Spring ...                                                                     |
| 203209  | 12312 | " " " Cap with 200984c, 203214, 203215 and two 200594c..                               |

| No.     | Plate | Name                                                                                                                                                                                     |
|---------|-------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 203214  | 12312 | Bobbin Case Tension Spring .....                                                                                                                                                         |
| 200984c | 12312 | " " " " Regulating Screw .....                                                                                                                                                           |
| 200594c | 12312 | Bobbin Case Tension Spring Screw                                                                                                                                                         |
| 203215  | 12312 | " " Thread Guide .....                                                                                                                                                                   |
| 200594c | 12312 | " " " " Screw ..                                                                                                                                                                         |
| 203216  | 12312 | " " Washer (cloth) .....                                                                                                                                                                 |
| 203217  | 12312 | Bobbin Case complete, Nos. 203209 and 203210 .....                                                                                                                                       |
| 213945  | 11636 | Face Plate with 200355H, 203751, 207069, two each 200368H, 202090, 204281 and three 200397H .....                                                                                        |
| 200053c | 12311 | Face Plate Screw .....                                                                                                                                                                   |
| 203751  | 13429 | " " Thread Guide .....                                                                                                                                                                   |
| 200397c | 13404 | " " " " Set Screw                                                                                                                                                                        |
| 213946  | 11636 | Face Plate complete, Nos. 200098F, 200318H, 202108, 213213, 213214, 213267, 213935, 213941 to 213945, 219866, 219867, 225604, 228026, two each 200089D, 200290C, 203753 and 204059 ..... |
| 213789  | 11090 | Feed Bar with 204189 .....                                                                                                                                                               |
| 213765  | —     | " " 213789 with 200214E, 201525E, 201535E, 204200 and 350219E .....                                                                                                                      |
| 200214E | 13402 | Feed Bar Hinge Screw .....                                                                                                                                                               |
| 201525E | 13402 | " " " " Nut .....                                                                                                                                                                        |
| 214424  | 13429 | " " Spring .....                                                                                                                                                                         |
| 204189  | 11635 | " " " Hook .....                                                                                                                                                                         |
| 212827  | 13406 | " Dog .....                                                                                                                                                                              |
| 200106E | 12311 | " " Screw (2) .....                                                                                                                                                                      |
| 350219E | 13429 | " " Support Screw .....                                                                                                                                                                  |
| 201535E | 11090 | " " " " Nut .....                                                                                                                                                                        |
| 206206  | 13401 | " Driving Cam and Gear, 54 teeth, with two 200383c .....                                                                                                                                 |
| 206609  | —     | Feed Driving Cam and Gear Driving Gear, 18 teeth .....                                                                                                                                   |
| 213218  | 11090 | Feed Driving Cam and Gear Driving Gear 206609 with two 200348c                                                                                                                           |
| 200348c | 11090 | Feed Driving Cam and Gear Driving Gear Set Screw .....                                                                                                                                   |
| 201816  | 12307 | Feed Driving Cam and Gear Roller                                                                                                                                                         |
| 201850  | 11090 | " " " " " " " 201816 with 200820c .....                                                                                                                                                  |
| 200820c | 11635 | Feed Driving Cam and Gear Roller Stud .....                                                                                                                                              |
| 201517E | 11090 | Feed Driving Cam and Gear Roller Stud Nut .....                                                                                                                                          |

| No.     | Plate | Name                                                                           |
|---------|-------|--------------------------------------------------------------------------------|
| 200383c | 12311 | Feed Driving Cam and Gear Set Screw .....                                      |
| 213233  | 11097 | Feed Driving Cam and Gear Shaft                                                |
| 213245  | 13401 | " " " " " "                                                                    |
|         |       | Bracket .....                                                                  |
| 200036E | 11090 | Feed Driving Cam and Gear Shaft Bracket Screw (3) .....                        |
| 230743  | —     | Feed Driving Cam and Gear Shaft Bracket Screw Washer (3) ....                  |
| 213172  | 11636 | Feed Driving Rock Shaft .....                                                  |
| 213167  | 11636 | " " " " 213172 with 200002E, 201522E and 204193                                |
| 202305  | 12307 | Feed Driving Rock Shaft Center (2)                                             |
| 200043c | 12311 | " " " " " Set Screw (2) .....                                                  |
| 204193  | 13401 | Feed Driving Rock Shaft Connection with 200668c and 201525E ..                 |
| 200002E | 13402 | Feed Driving Rock Shaft Connection Hinge Screw .....                           |
| 201522E | 13402 | Feed Driving Rock Shaft Connection Hinge Screw Nut .....                       |
| 204200  | 11635 | Feed Driving Rock Shaft Crank with 204189 (on left side) and two 200383c ..... |
| 200383c | 12311 | Feed Driving Rock Shaft Crank Set Screw .....                                  |
| 213188  | 13403 | Feed Driving Segment Lever with 213391 and 222526 .....                        |
| 215700  | 11635 | Feed Driving Segment Lever Clamp with 200031F .....                            |
| 215702  | —     | Feed Driving Segment Lever Clamp 215700 with 215701 .....                      |
| 215701  | 11635 | Feed Driving Segment Lever Clamp Block .....                                   |
| 200031F | 12311 | Feed Driving Segment Lever Clamp Pinch Screw .....                             |
| 200668c | 13402 | Feed Driving Segment Lever Clamp Screw Stud .....                              |
| 201525E | 13402 | Feed Driving Segment Lever Clamp Screw Stud Nut .....                          |
| 203741  | —     | Feed Driving Segment Lever Crank with two 200363c .....                        |
| 213246  | 11097 | Feed Driving Segment Lever Crank 203741 with 201517E and 201850..              |
| 200363c | 11635 | Feed Driving Segment Lever Crank Set Screw .....                               |
| *213391 | 11635 | Feed Driving Segment Lever Shaft                                               |
| 222526  | 13429 | " " " " " Pin .....                                                            |

| No.     | Plate | Name                                                                               |
|---------|-------|------------------------------------------------------------------------------------|
| 213809  | 11101 | Feed Driving Segment Lever Shaft Sleeve (split) (left) .....                       |
| 204196  | 12307 | Feed Driving Segment Lever Shaft Sleeve (split) (right) .....                      |
| 200043c | 12311 | Feed Driving Segment Lever Shaft Sleeve Set Screw (2) .....                        |
| 201524E | 13404 | Feed Driving Segment Lever Shaft Sleeve Set Screw Nut (2) .....                    |
| 213234  | 11097 | Feed Lifting Cam with 204020 and two 200383c .....                                 |
| 200383c | 12311 | Feed Lifting Cam Set Screw .....                                                   |
| 213796  | 13403 | " " Rock Shaft .....                                                               |
| 203321  | —     | " " " " 213796 with 203238 .....                                                   |
| 202305  | 12307 | Feed Lifting Rock Shaft Center (2)                                                 |
| 200043c | 12311 | " " " " " Set Screw (2) .....                                                      |
| 234717  | 13429 | Feed Lifting Rock Shaft Lever with 200049E and 201807 .....                        |
| 204020  | —     | Feed Lifting Rock Shaft Lever Cushion (leather) .....                              |
| 200049E | 13402 | Feed Lifting Rock Shaft Lever Pinch Screw .....                                    |
| 201822  | —     | Feed Lifting Rock Shaft Lever Roller .....                                         |
| 201807  | 13429 | Feed Lifting Rock Shaft Lever Roller 201822 with 200261F .....                     |
| 200261F | 13410 | Feed Lifting Rock Shaft Lever Roller Screw Stud .....                              |
| 202276  | 12308 | Feed Lifting Rock Shaft Slide Block .....                                          |
| 203238  | 12308 | Feed Lifting Rock Shaft Slide Block 202276 with 200243E and 201531E .....          |
| 200243E | 13402 | Feed Lifting Rock Shaft Slide Block Hinge Screw .....                              |
| 201531E | 12308 | Feed Lifting Rock Shaft Slide Block Hinge Screw Nut .....                          |
| 204206  | 13402 | Feed Regulating Handle .....                                                       |
| 204713  | 13403 | " " " 204206 with 200098E, 202622, 204208, 204209, 204213, 204714 and 204925 ..... |
| 204208  | 12307 | Feed Regulating Handle Adjustable Stop .....                                       |
| 200098F | 12307 | Feed Regulating Handle Adjustable Stop Screw .....                                 |
| 204925  | 13402 | Feed Regulating Handle Adjustable Stop Screw Washer .....                          |
| 204209  | 12307 | Feed Regulating Handle Position Pin .....                                          |

| No.     | Plate | Name                               |
|---------|-------|------------------------------------|
| 204714  | 13402 | Feed Regulating Handle Shaft       |
| 204211  | 13402 | " " " "                            |
|         |       | Crank with 200098F .....           |
| 204212  | 12307 | Feed Regulating Handle Shaft       |
|         |       | Crank Link .....                   |
| 200271E | 12311 | Feed Regulating Handle Shaft       |
|         |       | Crank Link Hinge Screw (lower)     |
| 200291E | 12307 | Feed Regulating Handle Shaft       |
|         |       | Crank Link Hinge Screw (upper)     |
| 200098F | 12307 | Feed Regulating Handle Shaft       |
|         |       | Crank Set Screw .....              |
| 204213  | 12307 | Feed Regulating Handle Shaft       |
|         |       | Sleeve (split) .....               |
| 200362c | 12311 | Feed Regulating Handle Shaft       |
|         |       | Sleeve Set Screw .....             |
| 202622  | 13402 | Feed Regulating Handle Shaft       |
|         |       | Sleeve Washer .....                |
| 202036  | 13402 | Feed Regulating Handle Stop Pin    |
| 204715  | —     | Feed Regulating Handle complete,   |
|         |       | Nos. 200291E, 204211, 204212 and   |
|         |       | 204713 .....                       |
| *203239 | —     | Hook (sewing) .....                |
| 203240  | 12312 | " 203239 with 201253F, 201376F     |
|         |       | and 203251 .....                   |
| 203290  | 12312 | Hook and Bobbin Case complete,     |
|         |       | Nos. 203217 and 203240 .....       |
| 203241  | 12312 | Hook Bevel Gear Socket, 24 teeth   |
| 200555H | 12312 | " " " " Screw ...                  |
| 203242  | 12344 | " " Pinion, 24 teeth, with         |
|         |       | two 200383c (2) .....              |
| 200383c | 12311 | Hook Bevel Pinion Set Screw ....   |
| 203306  | 13403 | " Counter Shaft .....              |
| 203244  | 12308 | " " " Collar with two              |
|         |       | 200393c .....                      |
| 200393c | 12308 | Hook Counter Shaft Collar Set      |
|         |       | Screw .....                        |
| 203245  | 12344 | Hook Counter Shaft Driving Gear,   |
|         |       | 44 teeth, with 200362c and 200439c |
| 200439c | 12311 | Hook Counter Shaft Driving Gear    |
|         |       | Position Screw .....               |
| 200362c | 12311 | Hook Counter Shaft Driving Gear    |
|         |       | Set Screw .....                    |
| 203246  | 12344 | Hook Counter Shaft Gear, 22 teeth, |
|         |       | with two 200383c .....             |
| 200383c | 12311 | Hook Counter Shaft Gear Set Screw  |
| 202299  | —     | " " " Oil Packing                  |
|         |       | (wick) .....                       |
| 200840E | 12311 | Hook Counter Shaft Oil Packing     |
|         |       | (wick) Stop Screw .....            |

| No.     | Plate | Name                               |
|---------|-------|------------------------------------|
| 213230  | 11636 | Hook Driving Shaft .....           |
| 213191  | 13403 | " " " Bearing with                 |
|         |       | 202299 .....                       |
| 202299  | —     | Hook Driving Shaft Bearing Oil     |
|         |       | Packing (wick) .....               |
| 202126  | 12308 | Hook Driving Shaft Bearing Posi-   |
|         |       | tion Pin .....                     |
| 200516E | 12311 | Hook Driving Shaft Bearing Screw   |
| 203249  | 12344 | " " " Bushing (eccen-              |
|         |       | tric) .....                        |
| 202299  | —     | Hook Driving Shaft Bushing Oil     |
|         |       | Packing (wick) .....               |
| 200362c | 12311 | Hook Driving Shaft Bushing Set     |
|         |       | Screw .....                        |
| 213141  | 11635 | Hook Driving Shaft Collar with     |
|         |       | two 200393c .....                  |
| 200393c | 12308 | Hook Driving Shaft Collar Set      |
|         |       | Screw .....                        |
| 203251  | 12312 | Hook Gib .....                     |
| 201376F | 13402 | " " Hinge Screw .....              |
| 201253F | 13429 | " " Screw .....                    |
| 203307  | 12335 | " Saddle with 202299 .....         |
| 202299  | —     | " " Oil Packing (wick) ...         |
| 200006E | 12307 | " " Screw (4) .....                |
| 225585  | 12307 | " " " Washer (4) ....              |
| 203254  | 12312 | " Washer .....                     |
| 203308  | 12335 | Hook Saddle complete, Nos.         |
|         |       | 200555H, 203241, 203254, 203290    |
|         |       | and 203307 .....                   |
| 203462  | —     | Hook Saddle Combination com-       |
|         |       | plete, Nos. two 203308 .....       |
| 203746  | 13403 | Knee Lifter Connection Lever ....  |
| 227443  | —     | " " " " 203746                     |
|         |       | with 203749, 227309 and two        |
|         |       | 200262H .....                      |
| 200262H | 13429 | Knee Lifter Connection Lever       |
|         |       | Hinge Screw .....                  |
| 227309  | 13430 | Knee Lifter Connection Lever Lift- |
|         |       | ing Rod with 202302 .....          |
| 202302  | 13402 | Knee Lifter Connection Lever Lift- |
|         |       | ing Rod Cotter Pin .....           |
| 215352  | 11642 | Knee Lifter Connection Lever Lift- |
|         |       | ing Rod Spring .....               |
| 227227  | 11642 | Knee Lifter Connection Lever Lift- |
|         |       | ing Rod Spring Collar with         |
|         |       | 200113F .....                      |
| 200113F | 12308 | Knee Lifter Connection Lever Lift- |
|         |       | ing Rod Spring Collar Set Screw    |

| No.     | Plate | Name                                                                                      |
|---------|-------|-------------------------------------------------------------------------------------------|
| 203748  | 13430 | Knee Lifter Lifting Lever .....                                                           |
| 203749  | —     | " " " " 203748<br>with 227447 and two 200110B ...                                         |
| 200262H | 13429 | Knee Lifter Lifting Lever Hinge<br>Screw .....                                            |
| 213244  | 11098 | Needle Bar (hollow) .....                                                                 |
| 213387  | 13403 | " " 213244 with 201206F,<br>213256 and 213398 .....                                       |
| 213222  | 13402 | Needle Bar Bushing (2) .....                                                              |
| 200346C | 13402 | " " " Set Screw (2)                                                                       |
| 204248  | 12307 | " " Connecting Link                                                                       |
| 200658C | 12307 | " " " "                                                                                   |
|         |       | Hinge Screw Stud .....                                                                    |
| 201519E | 12307 | Needle Bar Connecting Link Hinge<br>Screw Stud Nut .....                                  |
| 204249  | 12308 | Needle Bar Connecting Stud with<br>200072C and 202277 .....                               |
| 202277  | —     | Needle Bar Connecting Stud Oil<br>Packing (wick) .....                                    |
| 200072C | 12308 | Needle Bar Connecting Stud Pinch<br>Screw .....                                           |
| 221480  | 13402 | Needle Bar Guide with 200086C ..                                                          |
| 200086C | 12308 | " " " Pinch Screw ...                                                                     |
| 213256  | 13429 | " " Thread Guide .....                                                                    |
| 234715  | 13429 | " Holder (left) with two<br>200117F .....                                                 |
| 234716  | 13429 | Needle Holder (right) with two<br>200117F .....                                           |
| 213236  | 13429 | Needle Holder Bracket .....                                                               |
| 213398  | —     | " " " 213236 with<br>234715, 234716, two each 200797C,<br>201183F, 201537H and 225604 ... |
| 201206F | 13410 | Needle Holder Bracket Screw ....                                                          |
| 201183F | 13429 | " " Cap Screw .....                                                                       |
| 200797C | 13429 | " " Stud .....                                                                            |
| 201537H | 12319 | " " " Nut .....                                                                           |
| 225604  | 13402 | " " " Washer .....                                                                        |
| 200117F | 11097 | " Set Screw .....                                                                         |
| 221474  | 13403 | " Vibrating Cam and Gear, 48<br>teeth .....                                               |
| 221473  | —     | Needle Vibrating Cam and Gear<br>221474 with 200079H and 213276                           |
| 221477  | —     | Needle Vibrating Cam and Gear<br>221473 with 200062H and 213203                           |
| 200062H | 12311 | Needle Vibrating Cam and Gear<br>Adjusting Screw .....                                    |
| 221470  | 13404 | Needle Vibrating Cam and Gear<br>Driving Gear, 16 teeth, with two<br>200383C .....        |

| No.     | Plate | Name                                                                                                                                                              |
|---------|-------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 200383C | 12311 | Needle Vibrating Cam and Gear<br>Driving Gear Set Screw .....                                                                                                     |
| 213802  | 11098 | Needle Vibrating Cam and Gear<br>Segment Lever with 201809,<br>204928 and 215691 .....                                                                            |
| 234706  | —     | Needle Vibrating Cam and Gear<br>Segment Lever Bushing .....                                                                                                      |
| 204922  | 13429 | Needle Vibrating Cam and Gear<br>Segment Lever Connecting Link<br>(lower or upper) .....                                                                          |
| 204841  | —     | Needle Vibrating Cam and Gear<br>Segment Lever Connecting Link<br>204922 with 204923 .....                                                                        |
| 204923  | 11642 | Needle Vibrating Cam and Gear<br>Segment Lever Connecting Link<br>Bushings (2) .....                                                                              |
| 200110B | 13404 | Needle Vibrating Cam and Gear<br>Segment Lever Connecting Link<br>Screw .....                                                                                     |
| 204924  | 13404 | Needle Vibrating Cam and Gear<br>Segment Lever Connecting Link<br>Screw Washer .....                                                                              |
| 213241  | 11098 | Needle Vibrating Cam and Gear<br>Segment Lever Connection<br>(lower) with 214005 .....                                                                            |
| 213242  | 11098 | Needle Vibrating Cam and Gear<br>Segment Lever Connection<br>(upper) with 214005 .....                                                                            |
| 213243  | 11098 | Needle Vibrating Cam and Gear<br>Segment Lever Connection<br>Bracket .....                                                                                        |
| 213277  | —     | Needle Vibrating Cam and Gear<br>Segment Lever Connection<br>Bracket 213243 with 213241,<br>213242, two each 201275B, 204841,,<br>204924, 213265 and four 200110B |
| 200571B | 11090 | Needle Vibrating Cam and Gear<br>Segment Lever Connection<br>Bracket Screw (lower) .....                                                                          |
| 200574E | 11642 | Needle Vibrating Cam and Gear<br>Segment Lever Connection<br>Bracket Screw (upper) .....                                                                          |
| 200791E | 13404 | Needle Vibrating Cam and Gear<br>Segment Lever Connection Screw<br>Stud Slide (2) .....                                                                           |
| 228026  | 13406 | Needle Vibrating Cam and Gear<br>Segment Lever Connection Screw<br>Stud Slide Washer (2) .....                                                                    |

| No.     | Plate | Name                                                                                                                  |
|---------|-------|-----------------------------------------------------------------------------------------------------------------------|
| 201581  | 13404 | Needle Vibrating Cam and Gear Segment Lever Connection Screw Stud Slide Wing Nut (2) .....                            |
| 213265  | 11100 | Needle Vibrating Cam and Gear Segment Lever Connection Slide Block .....                                              |
| 201275D | 13410 | Needle Vibrating Cam and Gear Segment Lever Connection Slide Block Screw .....                                        |
| 206505  | 11100 | Needle Vibrating Cam and Gear Segment Lever Connection Stop Block .....                                               |
| 200135E | 142   | Needle Vibrating Cam and Gear Segment Lever Connection Stop Block Screw .....                                         |
| 225908  | 11100 | Needle Vibrating Cam and Gear Segment Lever Connection Stop Block Screw Washer .....                                  |
| 206008  | —     | Needle Vibrating Cam and Gear Segment Lever Connection Stop Block complete, Nos. 200135E, 206505 and 225908 (2) ..... |
| *214005 | —     | Needle Vibrating Cam and Gear Segment Lever Connection Stud with 204020 .....                                         |
| 201816  | 19307 | Needle Vibrating Cam and Gear Segment Lever Roller .....                                                              |
| 201809  | 13404 | Needle Vibrating Cam and Gear Segment Lever Roller 201816 with 202556 .....                                           |
| 202556  | —     | Needle Vibrating Cam and Gear Segment Lever Roller Stud ....                                                          |
| *204928 | —     | Needle Vibrating Cam and Gear Segment Lever Shaft .....                                                               |
| 202574  | 11635 | Needle Vibrating Cam and Gear Segment Lever Shaft Collar with 200380c .....                                           |
| 200380c | 12319 | Needle Vibrating Cam and Gear Segment Lever Shaft Collar Set Screw .....                                              |
| 215691  | 11642 | Needle Vibrating Cam and Gear Segment Lever Shaft Position Pin .....                                                  |
| 213203  | 13403 | Needle Vibrating Cam and Gear Stud .....                                                                              |
| 201501D | 13404 | Needle Vibrating Cam and Gear Stud Nut .....                                                                          |
| 200343c | 13404 | Needle Vibrating Cam and Gear Stud Set Screw .....                                                                    |

| No.     | Plate | Name                                                                            |
|---------|-------|---------------------------------------------------------------------------------|
| 213240  | 11100 | Needle Vibrating Lever (2) .....                                                |
| 213250  | 11100 | " " Bearing (left) .....                                                        |
| 234704  | 11100 | Needle Vibrating Lever Bearing (right) .....                                    |
| 204020  | —     | Needle Vibrating Lever Friction (leather) .....                                 |
| 200117F | 11097 | Needle Vibrating Lever Set Screw                                                |
| 213825  | 13406 | Piercer .....                                                                   |
| 213260  | 13403 | " Bar .....                                                                     |
| 214003  | —     | " " 213260 with 213262 and 221481 .....                                         |
| 221481  | 13404 | Piercer Bar Bushing (lower) ....                                                |
| 200352c | 11635 | " " " " Set Screw .....                                                         |
| 213262  | 11100 | Piercer Bar Bushing (upper) ....                                                |
| 200352c | 11635 | " " " " Set Screw .....                                                         |
| 213248  | 11100 | Piercer Bar Driving Cam with two 200362c .....                                  |
| 213258  | 11100 | Piercer Bar Driving Cam Connection with 200057H and 200066D..                   |
| 213247  | 11642 | Piercer Bar Driving Cam Connection 213258 with 200128E, 213248 and 213740 ..... |
| 247563  | —     | Piercer Bar Driving Cam Connection Crank with 200070c .....                     |
| 221461  | 11642 | Piercer Bar Driving Cam Connection Crank 247563 with 200740c and 201520H .....  |
| 200740c | 11101 | Piercer Bar Driving Cam Connection Crank Ball Screw .....                       |
| 201520H | 11101 | Piercer Bar Driving Cam Connection Crank Ball Screw Nut ....                    |
| 200070c | 11642 | Piercer Bar Driving Cam Connection Crank Pinch Screw .....                      |
| 200057H | 13404 | Piercer Bar Driving Cam Connection Pinch Screw .....                            |
| 200066D | 11642 | Piercer Bar Driving Cam Connection Pinch Screw .....                            |
| 213740  | 11101 | Piercer Bar Driving Cam Retaining Washer .....                                  |
| 200128E | 11642 | Piercer Bar Driving Cam Retaining Washer Screw .....                            |
| 200362c | 12311 | Piercer Bar Driving Cam Set Screw                                               |
| 213249  | 14101 | " " Lifting Bracket with two 201052c .....                                      |
| 201052c | 13429 | Piercer Bar Lifting Bracket Set Screw .....                                     |

| No.     | Plate | Name                                                                            |
|---------|-------|---------------------------------------------------------------------------------|
| 213804  | 13403 | Piercer Bar Lifting Rock Shaft ...                                              |
| 215720  | 11642 | " " " " " Bush-<br>ing (2) .....                                                |
| 200043c | 12311 | Piercer Bar Lifting Rock Shaft<br>Bushing Set Screw (2) .....                   |
| 201524E | 13404 | Piercer Bar Lifting Rock Shaft<br>Bushing Set Screw Nut (2) ....                |
| 204197  | 11635 | Piercer Bar Lifting Rock Shaft<br>Collar with 200113F .....                     |
| 200113F | 12308 | Piercer Bar Lifting Rock Shaft<br>Collar Set Screw .....                        |
| 213255  | 11098 | Piercer Bar Lifting Rock Shaft<br>Crank with 201812, 205532 and<br>213804 ..... |
| 214004  | 13405 | Piercer Bar Lifting Rock Shaft<br>Crank 213255 with 213249 .....                |
| 205532  | 13429 | Piercer Bar Lifting Rock Shaft<br>Crank Position Pin .....                      |
| 201812  | 11642 | Piercer Bar Lifting Rock Shaft<br>Crank Roller and Stud .....                   |
| 213253  | 11101 | Piercer Holder with 200117F .....                                               |
| 200076D | 11642 | " " Screw .....                                                                 |
| 200117F | 11097 | " Set Screw .....                                                               |
| 213791  | 13405 | Presser Bar (hollow) .....                                                      |
| 204252  | 12308 | " " Lifter .....                                                                |
| 200550c | 12311 | " " " Hinge Screw ..                                                            |
| 202179  | 13429 | " " Lifting Bracket with<br>200387c .....                                       |
| 204254  | 12307 | Presser Bar Lifting Bracket Posi-<br>tion Guide .....                           |
| 200362c | 12311 | Presser Bar Lifting Bracket Posi-<br>tion Guide Set Screw .....                 |
| 200387c | 13429 | Presser Bar Lifting Bracket Set<br>Screw .....                                  |
| 204327  | —     | Presser Bar Packing Washer (felt)                                               |
| 200504E | 13404 | " " Screw Bushing (lower)                                                       |
| 204255  | 13404 | " " Spring .....                                                                |
| 200491B | 12344 | " " Thumb Screw (pres-<br>sure regulating) .....                                |
| 200436F | 13404 | Presser Foot Adjusting Screw ...                                                |
| 200086F | 12308 | " " " " Clamp<br>Screw .....                                                    |
| 221479  | 13404 | Presser Foot Hinge Pin .....                                                    |
| 229685  | 13404 | " " " Stud .....                                                                |
| 200397H | 13404 | " " " " Set Screw                                                               |
| 229706  | 13407 | " " Plate (left) .....                                                          |
| 229707  | 13407 | " " " (right) .....                                                             |
| 206653  | 14214 | " " Shank (left) with<br>200086F, 200397H and 200436F ..                        |

| No.     | Plate | Name                                                                                                                                        |
|---------|-------|---------------------------------------------------------------------------------------------------------------------------------------------|
| 229775  | 14214 | Presser Foot Shank 206653 with<br>221479 and 229706 .....                                                                                   |
| 229796  | 13407 | Presser Foot Shank (right) with<br>200086F .....                                                                                            |
| 229776  | 14214 | Presser Foot Shank 229796 with<br>221479 and 229707 .....                                                                                   |
| 200086F | 12308 | Presser Foot Shank (right) Set<br>Screw .....                                                                                               |
| 229674  | 13407 | Presser Foot Spring .....                                                                                                                   |
| 202737  | 13404 | " " " Collar with<br>200380c .....                                                                                                          |
| 200380c | 12319 | Presser Foot Spring Collar Set<br>Screw .....                                                                                               |
| 229711  | 14214 | Presser Foot (hinged) (narrow)<br>complete, Nos. 229685, 229775<br>and 229776 .....                                                         |
| 213276  | 11103 | Presser Foot Vibrating Cam .....                                                                                                            |
| 200079H | 12311 | " " " " Screw                                                                                                                               |
| 213269  | 11103 | " " " Collar and<br>Plunger Socket with 200526c ..                                                                                          |
| 200526c | 11103 | Presser Foot Vibrating Collar and<br>Plunger Socket Set Screw .....                                                                         |
| 214009  | 13405 | Presser Foot Vibrating Collar and<br>Plunger Socket complete, Nos.<br>200199D, 201525E, 201822, 213269,<br>213270 and 213273 to 213275 .... |
| 213274  | 11103 | Presser Foot Vibrating Engaging<br>Lever with 200141F and 201609 ..                                                                         |
| 213270  | 11103 | Presser Foot Vibrating Engaging<br>Lever Plunger with 204020 .....                                                                          |
| 204020  | —     | Presser Foot Vibrating Engaging<br>Lever Plunger Cushion (leather)                                                                          |
| 201822  | —     | Presser Foot Vibrating Engaging<br>Lever Plunger Roller .....                                                                               |
| 200199D | 11103 | Presser Foot Vibrating Engaging<br>Lever Plunger Roller Screw Stud                                                                          |
| 201525E | 13402 | Presser Foot Vibrating Engaging<br>Lever Plunger Roller Screw Stud<br>Nut .....                                                             |
| 213275  | 11103 | Presser Foot Vibrating Engaging<br>Lever Plunger Spring .....                                                                               |
| *201609 | —     | Presser Foot Vibrating Engaging<br>Lever Swivel Stud .....                                                                                  |
| 200141F | 11103 | Presser Foot Vibrating Engaging<br>Lever Swivel Stud Set Screw ..                                                                           |
| 213273  | 11103 | Presser Foot Vibrating Engaging<br>Lever Washer Spring .....                                                                                |
| 213271  | 13430 | Presser Foot Vibrating Lever with<br>201813, 203325 and 213813 .....                                                                        |

| No.     | Plate | Name                                                                               |
|---------|-------|------------------------------------------------------------------------------------|
| 201829  | 11642 | Presser Foot Vibrating Lever Roller .....                                          |
| 201813  | —     | Presser Foot Vibrating Lever Roller 201829 with 200274c ....                       |
| 200274c | 11642 | Presser Foot Vibrating Lever Roller Screw Stud .....                               |
| 213813  | —     | Presser Foot Vibrating Lever Shaft                                                 |
| 203325  | 13429 | " " " " " " Position Pin .....                                                     |
| 227447  | 11103 | Presser Foot Vibrating Shoe ....                                                   |
| 200110B | 13404 | " " " " Screw                                                                      |
| 202068  | 12153 | Spool Holder Base .....                                                            |
| 204551  | 11636 | " " " Bracket (for two spools) .....                                               |
| 200257D | 13404 | Spool Holder Base Bracket Screw                                                    |
| 204552  | 11636 | Spool Holder Base Bracket complete, Nos. 204551, two each 200575H and 204297 ..... |
| 200575H | 12311 | Spool Holder Base Screw .....                                                      |
| 204296  | 12153 | " " Wire .....                                                                     |
| 200079H | 12311 | " " " Hinge Screw ....                                                             |
| 204297  | 12153 | Spool Holder complete, Nos. 200079H, 202068 and 204296 ....                        |
| 212920  | —     | Take-up Cam with 200335c and 200430c .....                                         |
| 203268  | 13405 | Take-up Cam 212920 with 200383c, 200658c and 201519E .....                         |
| 203172  | 12307 | Take-up Cam Friction Washer ....                                                   |
| 200430c | 12311 | " " Position Screw .....                                                           |
| 200383c | 12311 | " " " " Check Screw .....                                                          |
| 200335c | 12311 | Take-up Cam Set Screw .....                                                        |
| 203311  | 13404 | " Lever .....                                                                      |
| 221454  | —     | " " 203311 with 204263 ..                                                          |
| 204263  | 13404 | " " Bearing with 204264 ..                                                         |
| 204264  | 13429 | " " " Position Pin ...                                                             |
| 200042F | 12311 | " " " Screw .....                                                                  |
| 201816  | 12307 | " " Roller .....                                                                   |
| 203312  | 13404 | Take-up Lever complete, Nos. 200042F, 201816 and 221454 ....                       |
| 244007  | 13429 | Tension Disc .....                                                                 |
| 202090  | 13429 | " " Position Pin .....                                                             |
| 213267  | 11101 | " Release Cam .....                                                                |
| 200290c | 13406 | " " " Screw .....                                                                  |
| 207069  | 13429 | " " " Position Pin ..                                                              |
| 213213  | 13406 | " " Lever .....                                                                    |
| 200290c | 13406 | " " " Screw .....                                                                  |
| 213214  | 13406 | " " " Spring .....                                                                 |
| 200318H | 13406 | " " " " Screw ...                                                                  |
| 202075  | 13429 | " " Plunger .....                                                                  |

| No.     | Plate | Name                                                                                                |
|---------|-------|-----------------------------------------------------------------------------------------------------|
| 203750  | 13431 | Tension Release Slide .....                                                                         |
| 206608  | 13429 | " " " Spring .....                                                                                  |
| 13710   | 13429 | " Spring .....                                                                                      |
| 200632H | 13429 | " Stud .....                                                                                        |
| 200397H | 13404 | " " Set Screw .....                                                                                 |
| 201572B | 10881 | " Thumb Nut .....                                                                                   |
| 204271  | 13429 | " Washer .....                                                                                      |
| 203753  | 13429 | Tension complete, Nos. 13710, 200632H, 201572H, 202075, 204271 and two 244007 .....                 |
| 213934  | 11644 | Thread Controller Bracket .....                                                                     |
| 213935  | —     | " " " 213934 with 200152H, 213937 to 213939, two each 200315H, 202098, 213936 and four 213940 ..... |
| 202108  | 13404 | Thread Controller Bracket Position Pin .....                                                        |
| 200098F | 12307 | Thread Controller Bracket Screw                                                                     |
| 213936  | 11644 | " " Plate .....                                                                                     |
| 202098  | 11644 | " " Roller .....                                                                                    |
| 213937  | 11644 | " " " Guard (back)                                                                                  |
| 213938  | 11644 | " " " " (front)                                                                                     |
| 213939  | 11644 | " " " " Clamp                                                                                       |
| 200152H | 11644 | " " " " " Screw .....                                                                               |
| 213940  | 11644 | Thread Controller Roller Guard Clamp Screw Washer .....                                             |
| 200315H | 11644 | Thread Controller Roller Screw ..                                                                   |
| 219866  | 11644 | " " Spring (back) ....                                                                              |
| 219867  | 11644 | " " " (front) ....                                                                                  |
| 213942  | 11644 | " " " Adjusting Collar (back) .....                                                                 |
| 200089D | 11635 | Thread Controller Spring Adjusting Collar (back) Clamp Screw ..                                     |
| 225604  | 13402 | Thread Controller Spring Adjusting Collar (back) Clamp Screw Washer .....                           |
| 213941  | 11644 | Thread Controller Spring Adjusting Collar (front) with 200397H                                      |
| 200397H | 13404 | Thread Controller Spring Adjusting Collar (front) Set Screw ...                                     |
| 213943  | 11644 | Thread Controller Spring Stop (adjustable) .....                                                    |
| 200089D | 11635 | Thread Controller Spring Stop Screw .....                                                           |
| 213944  | 11644 | Thread Controller Spring Stud ....                                                                  |
| 200355H | 12319 | " " " " Set Screw .....                                                                             |

| No.     | Plate | Name                                                           |
|---------|-------|----------------------------------------------------------------|
| 228026  | 13406 | Thread Controller Spring Stud Washer .....                     |
| 203313  | 13406 | Thread Guide .....                                             |
| 204459  | 13406 | " " (2) .....                                                  |
| 204281  | 13431 | " Retainer Guide Wire .....                                    |
| 202091  | 13431 | " " Sleeve .....                                               |
| 202092  | 13431 | " " Spring (spiral) .....                                      |
| 204058  | 13431 | " " Stud .....                                                 |
| 200368H | 13431 | " " " Set Screw .....                                          |
| 204059  | 13431 | Thread Retainer complete, Nos. 202091, 202092 and 204058 ..... |
| 212826  | 13406 | Throat Plate with 212863 and two 200587D .....                 |
| 200161D | 12319 | Throat Plate Clamp Screw .....                                 |
| 212863  | 13406 | " " Needle Guard .....                                         |
| 200587D | 13406 | " " " " Screw ..                                               |
| 203376  | 13431 | " " Position Pin .....                                         |
| 200577H | 12311 | " " Screw .....                                                |

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

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

## ACCESSORIES

| No.     | Plate | Name                                                           |
|---------|-------|----------------------------------------------------------------|
| 234738  | 13406 | Auxiliary Piercer .....                                        |
| 213710  | 11635 | Bobbin (10) .....                                              |
| *225482 | —     | " Case Screw Driver Blade ..                                   |
| *225483 | —     | " " " " Handle ..                                              |
| 225497  | 12153 | Bobbin Case Screw Driver complete, Nos. 225482 and 225483 ..   |
| 225486  | 13410 | Needle Holder Stud Nut Wrench.                                 |
| 213825  | 13406 | Piercer .....                                                  |
| 213828  | 13406 | " .....                                                        |
| 234702  | —     | Tweezers .....                                                 |
| 130 x3  | —     | Needles, twelve, size 10 .....                                 |
| 228213  | —     | Drip Pan with four 1 in. wire nails                            |
| 41400   | 12153 | Machine Rest Pin (wood) .....                                  |
| 120342  | 12153 | Oiler (copper plated) with 120343                              |
| 120343  | 12153 | " Spout, 3½ in. long .....                                     |
| *225484 | —     | Screw Driver Blade .....                                       |
| *225485 | —     | " " Handle .....                                               |
| 225498  | 12153 | Screw Driver complete (7¼ in. long), Nos. 225484 and 225485 .. |
| 225554  | 12153 | Wrench (steel) .....                                           |

## BOBBIN WINDER

### Swing Automatic, Right Hand

|         |       |                                   |
|---------|-------|-----------------------------------|
| 225453  | 10884 | Frame with 202277 and 225438 .... |
| 225454  | 10884 | " Hinge Pin .....                 |
| 202277  | —     | " Oil Packing (wick) .....        |
| 225438  | 10884 | " " Well Cap .....                |
| 225455  | 10884 | " Spring .....                    |
| 225456  | 10884 | " " Plunger .....                 |
| 202473  | 10885 | Pulley with 200380C .....         |
| 200380C | 12319 | " Set Screw .....                 |
| 225381  | 10884 | Spindle .....                     |
| 225444  | 10884 | Stop Latch .....                  |
| 200056E | 10884 | " " Screw .....                   |
| 225458  | 10884 | " " Thumb Lever .....             |
| 225459  | 10884 | " " " " Hinge Stud                |
| 225459  | 10884 | " " " " Joint Stud                |
| 202478  | 10884 | " " Trip Lever .....              |
| 200299H | 10884 | " " " " Hinge Screw               |

| No.     | Plate | Name                                                                                                                                                                                                                                         |
|---------|-------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 225461  | 10881 | Tension Bracket with 201499n ...                                                                                                                                                                                                             |
| 200082D | 10881 | " " Screw .....                                                                                                                                                                                                                              |
| 228026  | 13406 | " " " Washer .....                                                                                                                                                                                                                           |
| 2102    | 10881 | " Disc .....                                                                                                                                                                                                                                 |
| 202407  | 10881 | " Spring .....                                                                                                                                                                                                                               |
| 201499n | 10881 | " Stud .....                                                                                                                                                                                                                                 |
| 201572n | 10881 | " " Thumb Nut .....                                                                                                                                                                                                                          |
| 225462  | 10881 | Bobbin Winder Tension Bracket<br>complete, Nos. 201572n, 202407,<br>225461 and two 2102 .....                                                                                                                                                |
| 225433  | 10885 | Bobbin Winder and Tension<br>Bracket Base .....                                                                                                                                                                                              |
| 225382  | 10885 | Universal Bobbin Winder complete,<br>Nos. 200056F, 200082D, 200299H,<br>202473, 202478, 225381, 225433,<br>225444, 225453 to 225456, 225458,<br>225462, 228026, two each 225459<br>and wood screws $\frac{3}{4}$ in., No. 12,<br>R.H.B. .... |

## KNEE LIFTER

|         |       |                                                                    |
|---------|-------|--------------------------------------------------------------------|
| 2763    | 14171 | Rock Shaft .....                                                   |
| 7539    | 14171 | " " Hanger (back) with<br>two wood screws 1 in., No. 10 ..         |
| 20093   | 14171 | Rock Shaft Hanger (front) with<br>two wood screws 1 in., No. 10 .. |
| 2765    | 14171 | Rock Shaft Knee Arm .....                                          |
| 2768    | —     | " " " " 2765 with<br>2766 and 2767 .....                           |
| 2766    | 14171 | Rock Shaft Knee Arm Hub with<br>356c .....                         |
| 356c    | 14171 | Rock Shaft Knee Arm Hub Set<br>Screw .....                         |
| 2767    | 14171 | Rock Shaft Knee Plate with 356c ..                                 |
| 356c    | 14171 | " " " " Set Screw                                                  |
| 228238  | 14171 | " " Lifting Lever with 356c                                        |
| 228239  | —     | " " " " 228238 with<br>8073, 204225, 228240 and 228241 ..          |
| 228240  | 14171 | Rock Shaft Lifting Lever Rod<br>(3 in. long) .....                 |
| 200529c | 14171 | Rock Shaft Lifting Lever Rod Set<br>Screw .....                    |
| 228241  | 14171 | Rock Shaft Lifting Lever Rod<br>Swivel with 200529c .....          |
| 204225  | 14171 | Rock Shaft Lifting Lever Rod<br>Swivel Spring .....                |
| 8073    | 14171 | Rock Shaft Lifting Lever Rod<br>Swivel Spring Plunger .....        |

| No.    | Plate | Name                                                                               |
|--------|-------|------------------------------------------------------------------------------------|
| 356c   | 14171 | Rock Shaft Lifting Lever Set Screw                                                 |
| 2770   | 14171 | " " Stop Dog with 356c ...                                                         |
| 356c   | 14171 | " " " " Set Screw ..                                                               |
| 228242 | 14171 | Rock Shaft complete, Nos. 2763,<br>2768, 7539, 20093, 228239 and two<br>2770 ..... |

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

## PRESSER FEET

|         |       |                                                                                     |
|---------|-------|-------------------------------------------------------------------------------------|
| 200436F | 13404 | Presser Foot Adjusting Screw ....                                                   |
| 200086F | 12308 | " " " " Clamp<br>Screw .....                                                        |
| 221479  | 13404 | Presser Foot Hinge Pin .....                                                        |
| 229685  | 13404 | " " " Stud .....                                                                    |
| 200397H | 13404 | " " " " Set Screw                                                                   |
| 229706  | 13407 | " " Plate (left) .....                                                              |
| 229707  | 13407 | " " " (right) .....                                                                 |
| 206653  | 14214 | " " Shank (left) with<br>200086F, 200397H and 200436F ..                            |
| 229775  | 12414 | Presser Foot Shank 206653 with<br>221479 and 229706 .....                           |
| 229796  | 13407 | Presser Foot Shank (right) with<br>200086F .....                                    |
| 229776  | 14214 | Presser Foot Shank 229796 with<br>221479 and 229707 .....                           |
| 200086F | 12308 | Presser Foot Shank (right) Set<br>Screw .....                                       |
| 229711  | 14214 | Presser Foot (hinged) (narrow)<br>complete, Nos. 229685, 229775 and<br>229776 ..... |
| 200436F | 13404 | Presser Foot Adjusting Screw ....                                                   |
| 200086F | 12308 | " " " " Clamp<br>Screw .....                                                        |
| 221479  | 13404 | Presser Foot Hinge Pin .....                                                        |
| 229685  | 13404 | " " " Stud .....                                                                    |
| 200397H | 13404 | " " " " Set Screw                                                                   |
| 229706  | 13407 | " " Plate (left) .....                                                              |
| 229835  | —     | " " " (right) .....                                                                 |
| 229672  | —     | " " Shank (left) with<br>200086F, 200397H and 200436F ..                            |

| No.     | Plate | Name                                                                 |
|---------|-------|----------------------------------------------------------------------|
| 229772  | 13431 | Presser Foot Shank 229672 with<br>221479 and 229706 .....            |
| 229796  | 13407 | Presser Foot Shank (right) with<br>200086F .....                     |
| 229836  | —     | Presser Foot Shank 229796 with<br>221479 and 229835 .....            |
| 200086F | 12308 | Presser Foot Shank (right) Set<br>Screw .....                        |
| 229837  | 13407 | Presser Foot (hinged) complete,<br>Nos. 229685, 229772 and 229836 .. |

## PIERCERS

|        |       |                         |
|--------|-------|-------------------------|
| 234737 | 13406 | Auxiliary Piercer ..... |
| 234738 | 13406 | " " .....               |
| 213825 | 13406 | Piercer .....           |
| 213828 | 13406 | " .....                 |

Note: Nos. 213825, 213828 and 234738  
made for 11 stitches and 234737 for 13  
stitches to the inch.

## CORD HOLDER

|         |       |                   |
|---------|-------|-------------------|
| 213289  | 11098 | Cord Holder ..... |
| 200809B | 11097 | " " Screw .....   |

## HEMMERS

| No.    | Plate | Name                                                                        |
|--------|-------|-----------------------------------------------------------------------------|
| 230192 | 11649 | Hemmer on Shank, for hems from<br>$\frac{1}{8}$ to $\frac{1}{2}$ inch ..... |

Note: State width required on order.

### HEMMER (REVERSE)

|        |       |                                                                             |
|--------|-------|-----------------------------------------------------------------------------|
| 230190 | 11649 | Hemmer on Shank, for hems from<br>$\frac{1}{8}$ to $\frac{1}{8}$ inch ..... |
|--------|-------|-----------------------------------------------------------------------------|

Note: State width required on order.

### HEMMER

(Right Hand)

Folds  $\frac{1}{16}$  in. Hem

|         |       |                                                                                                        |
|---------|-------|--------------------------------------------------------------------------------------------------------|
| 230940  | 14606 | Base Plate with 225706 .....                                                                           |
| 225706  | 13410 | " " Position Pin .....                                                                                 |
| 200246B | 13410 | " " Screw .....                                                                                        |
| 201525E | 13402 | " " " Nut .....                                                                                        |
| 225708  | 13410 | " " Spring .....                                                                                       |
| 230713  | 11650 | Folder on Shank .....                                                                                  |
| 200187B | 13410 | " " " Screw .....                                                                                      |
| 230484  | 13410 | " " " " Washer ....                                                                                    |
| 230714  | 11651 | Tongue with two 200133B .....                                                                          |
| 200133B | 13410 | " Screw .....                                                                                          |
| 230711  | 11652 | Hemmer complete, Nos. 200246B,<br>201525E, 225708, 230484, 230940,<br>230713, 230714 and two 200187B.. |

### HEMMER

(Right Hand)

Folds  $\frac{3}{8}$  in. Hem

|         |       |                                                                                                        |
|---------|-------|--------------------------------------------------------------------------------------------------------|
| 230940  | 14606 | Base Plate with 225706 .....                                                                           |
| 225706  | 13410 | " " Position Pin .....                                                                                 |
| 200246B | 13410 | " " Screw .....                                                                                        |
| 201525E | 13402 | " " " Nut .....                                                                                        |
| 225708  | 13410 | " " Spring .....                                                                                       |
| 230715  | 11650 | Folder on Shank .....                                                                                  |
| 200187B | 13410 | " " " Screw .....                                                                                      |
| 230484  | 13410 | " " " " Washer ....                                                                                    |
| 230716  | 11651 | Tongue with two 200103D .....                                                                          |
| 200103D | 13410 | " Screw .....                                                                                          |
| 230712  | 11652 | Hemmer complete, Nos. 200246B,<br>201525E, 225708, 230484, 230715,<br>230716, 230940 and two 200187B.. |

**HEMMER**

(Right Hand) (Small Opening)

Folds  $\frac{5}{16}$ ,  $\frac{3}{8}$  and  $\frac{1}{2}$  in. hems

Note: State width of hem required

| No.     | Plate | Name                                                                                                   |
|---------|-------|--------------------------------------------------------------------------------------------------------|
| 230940  | 14606 | Base Plate with 225706 .....                                                                           |
| 225706  | 13410 | " " Position Pin .....                                                                                 |
| 200246B | 13410 | " " Screw .....                                                                                        |
| 201525E | 13402 | " " " Nut .....                                                                                        |
| 225708  | 13410 | " " Spring .....                                                                                       |
| 230532  | 14608 | Folder on Shank .....                                                                                  |
| 200187B | 13410 | " " " Screw .....                                                                                      |
| 230484  | 13410 | " " " " Washer ....                                                                                    |
| 230533  | 14608 | Tongue with two 200133B .....                                                                          |
| 200133B | 13410 | " Screw .....                                                                                          |
| 230535  | 14609 | Hemmer complete, Nos. 200246B,<br>201525E, 225708, 230484, 230532,<br>230533, 230940 and two 200187B.. |

**HEMMER**

(Right Hand)

Folds Hems from  $\frac{5}{8}$  to  $2\frac{1}{2}$  in., in steps of  $\frac{1}{8}$  inch

Note: State width of hem required

|         |       |                                                                                                        |
|---------|-------|--------------------------------------------------------------------------------------------------------|
| 230940  | 14606 | Base Plate with 225706 .....                                                                           |
| 225706  | 13410 | " " Position Pin .....                                                                                 |
| 200246B | 13410 | " " Screw .....                                                                                        |
| 201525E | 13402 | " " " Nut .....                                                                                        |
| 225708  | 13410 | " " Spring .....                                                                                       |
| 230540  | 11650 | Folder on Shank .....                                                                                  |
| 200187B | 13410 | " " " Screw .....                                                                                      |
| 230484  | 13410 | " " " " Washer ....                                                                                    |
| 230539  | 11651 | Tongue with two 200103D .....                                                                          |
| 200103D | 13410 | " Screw .....                                                                                          |
| 230542  | 14609 | Hemmer complete, Nos. 200246B,<br>201525E, 225708, 230484, 230539,<br>230540, 230940 and two 200187B.. |

**HEMMER (REVERSE)**

(Right Hand)

Folds Hems from  $\frac{1}{4}$  to  $2\frac{3}{4}$  in., in steps of  $\frac{1}{8}$  inch

Note: State width of hem required

|         |       |                              |
|---------|-------|------------------------------|
| 230756  | 11651 | Base Plate with 225706 ..... |
| 225706  | 13410 | " " Position Pin .....       |
| 200246B | 13410 | " " Screw .....              |
| 201525E | 13402 | " " " Nut .....              |
| 225708  | 13410 | " " Spring .....             |

| No.     | Plate | Name                                                                                                                    |
|---------|-------|-------------------------------------------------------------------------------------------------------------------------|
| 230537  | 14608 | Folder on Shank .....                                                                                                   |
| 200187B | 13410 | " " " Screw .....                                                                                                       |
| 230484  | 13410 | " " " " Washer ....                                                                                                     |
| 230536  | 14608 | Tongue with two 200103D .....                                                                                           |
| 200103D | 13410 | " Screw .....                                                                                                           |
| 230538  | 11652 | Hemmer (reverse) complete, Nos.<br>200246B, 201525E, 225708, 230484,<br>230536, 230537, 230756 and two<br>200187B ..... |

**HEMMER (ADJUSTABLE)**

(Right Hand)

Folds Hems from  $\frac{1}{2}$  to  $2\frac{1}{4}$  inches

|         |       |                                                                                                                                      |
|---------|-------|--------------------------------------------------------------------------------------------------------------------------------------|
| 230940  | 14606 | Base Plate with 225706 .....                                                                                                         |
| 225706  | 13410 | " " Position Pin .....                                                                                                               |
| 200246B | 13410 | " " Screw .....                                                                                                                      |
| 201525E | 13402 | " " " Nut .....                                                                                                                      |
| 225708  | 13410 | " " Spring .....                                                                                                                     |
| 230519  | 14606 | Bracket (lower) with two 200078D                                                                                                     |
| 200158B | 13410 | " " Screw .....                                                                                                                      |
| 230484  | 13410 | " " Washer .....                                                                                                                     |
| 230521  | 14606 | " (upper) with 200462B and<br>two 200160B .....                                                                                      |
| 200078D | 12307 | Bracket (upper) Screw .....                                                                                                          |
| 230518  | 14606 | Folder Arm and Guard (left) ....                                                                                                     |
| 200160B | 13410 | " " " " Screw ....                                                                                                                   |
| 230520  | 14606 | " and Arm (right) .....                                                                                                              |
| 200462B | 13410 | " " " " Adjustable<br>Thumb Screw .....                                                                                              |
| 226163  | 13410 | Folder and Arm (right) Adjustable<br>Thumb Screw Washer .....                                                                        |
| 230523  | 14606 | Tongue (left) with two 200164B ..                                                                                                    |
| 200164B | 13410 | " " Screw .....                                                                                                                      |
| 230522  | 14606 | " (right) with two 200164B ..                                                                                                        |
| 200164B | 13410 | " " Screw .....                                                                                                                      |
| 230525  | 14609 | Hemmer (adjustable) complete,<br>Nos. 200246B, 201525E, 225708,<br>226163, 230484, 230518 to 230523,<br>230940 and two 200158B ..... |

**HEMMER (REVERSE) (ADJUSTABLE)**

(Right Hand)

Folds Hems from  $\frac{1}{2}$  to  $2\frac{1}{2}$  inches

|         |       |                              |
|---------|-------|------------------------------|
| 230529  | 14607 | Base Plate with 225706 ..... |
| 225706  | 13410 | " " Position Pin .....       |
| 200246B | 13410 | " " Screw .....              |
| 201525E | 13402 | " " " Nut .....              |

| No.     | Plate | Name                                                                                                                                      |
|---------|-------|-------------------------------------------------------------------------------------------------------------------------------------------|
| 225708  | 13410 | Base Plate Spring .....                                                                                                                   |
| 230528  | 14607 | Folder Arm and Guard (left) with<br>two 200155F .....                                                                                     |
| 200187B | 13410 | Folder Arm and Guard (left) Screw                                                                                                         |
| 230484  | 13410 | " " " " " "                                                                                                                               |
|         |       | Washer .....                                                                                                                              |
| 230526  | 14607 | Folder and Arm (right) with two<br>200155F .....                                                                                          |
| 200469B | 13410 | Folder and Arm (right) Adjustable<br>Thumb Screw .....                                                                                    |
| 226163  | 13410 | Folder and Arm (right) Adjustable<br>Thumb Screw Washer .....                                                                             |
| 230530  | 14607 | Tongue (left) .....                                                                                                                       |
| 230527  | 14607 | " (right) .....                                                                                                                           |
| 200155F | 13410 | " Screw .....                                                                                                                             |
| 230531  | 14609 | Hemmer (reverse) (adjustable)<br>complete, Nos. 200246B, 200469B,<br>201525E, 225708, 226163, 230484,<br>230526 to 230530 and two 200187B |

## HEMMER (ADJUSTABLE)

(Left Hand)

Folds Hems from  $\frac{1}{2}$  to  $2\frac{1}{4}$  inches

|         |       |                                                                                                                                          |
|---------|-------|------------------------------------------------------------------------------------------------------------------------------------------|
| 230516  | 14605 | Base Plate with 225706 .....                                                                                                             |
| 225706  | 13410 | " " Position Pin .....                                                                                                                   |
| 200246B | 13410 | " " Screw .....                                                                                                                          |
| 201525E | 13402 | " " Nut .....                                                                                                                            |
| 225708  | 13410 | " " Spring .....                                                                                                                         |
| 230515  | 14605 | Bracket (lower) with two 200078B                                                                                                         |
| 200158B | 13410 | " " Screw .....                                                                                                                          |
| 230484  | 13410 | " " Washer .....                                                                                                                         |
| 230514  | 14605 | " (upper) with 200462B and two<br>200160B .....                                                                                          |
| 200078B | 12307 | Bracket (upper) Screw .....                                                                                                              |
| 230510  | 14605 | Folder Arm and Guard (right) ....                                                                                                        |
| 200160B | 13410 | " " " " Screw .....                                                                                                                      |
| 230511  | 14605 | " and Arm (left) .....                                                                                                                   |
| 200462B | 13410 | " " " " Adjustable<br>Thumb Screw .....                                                                                                  |
| 226163  | 13410 | Folder and Arm (left) Adjustable<br>Thumb Screw Washer .....                                                                             |
| 230512  | 14605 | Tongue (left) with two 200164B ..                                                                                                        |
| 200164B | 13410 | " " Screw .....                                                                                                                          |
| 230513  | 14605 | " (right) with two 200164B ....                                                                                                          |
| 200164B | 13410 | " " Screw .....                                                                                                                          |
| 230517  | 14609 | Hemmer (adjustable) (left hand)<br>complete, Nos. 200246B, 201525E,<br>225708, 226163, 230484, 230510 to<br>230516 and two 200158B ..... |

## BOX PLAITER

(ADJUSTABLE)

| No.     | Plate | Name                                                                                                                                                    |
|---------|-------|---------------------------------------------------------------------------------------------------------------------------------------------------------|
| 230001  | 14526 | Base Plate .....                                                                                                                                        |
| 230002  | 14526 | " " Arm Bracket with two<br>200344C .....                                                                                                               |
| 200344C | 14527 | Base Plate Arm Bracket Adjusting<br>Screw .....                                                                                                         |
| 200048B | 14527 | Base Plate Arm Bracket Screw ...                                                                                                                        |
| 230003  | 14526 | " " Cloth Guide (left) .....                                                                                                                            |
| 230004  | 14526 | " " " " (right) .....                                                                                                                                   |
| 200169B | 14527 | " " " " Screw .....                                                                                                                                     |
| 200048B | 14527 | " " Screw .....                                                                                                                                         |
| 230005  | 14527 | Folder Blade (left) (adjustable)...                                                                                                                     |
| 230006  | 14527 | " " (right) (adjustable)...                                                                                                                             |
| 230007  | 14526 | " " Plate .....                                                                                                                                         |
| 200344C | 14527 | " " " Adjusting Screw                                                                                                                                   |
| 200053B | 12311 | " " " Screw .....                                                                                                                                       |
| 200169B | 14527 | " " Screw .....                                                                                                                                         |
| 230008  | 14527 | Presser Foot .....                                                                                                                                      |
| 230009  | 14528 | Space Gauge (left) .....                                                                                                                                |
| 230010  | 14528 | " " (right) .....                                                                                                                                       |
| 230011  | 14528 | " " Adjustable Slide (left)                                                                                                                             |
| 230012  | —     | " " " " 230011<br>with 200176B, 200186B, 202603 and<br>230009 .....                                                                                     |
| 230013  | 14528 | Space Gauge Adjustable Slide<br>(right) .....                                                                                                           |
| 230014  | 14529 | Space Gauge Adjustable Slide<br>230013 with 200176B, 200186B,<br>202603 and 230010 .....                                                                |
| 200186B | 14527 | Space Gauge Screw (long) .....                                                                                                                          |
| 202603  | 14527 | " " " " Washer                                                                                                                                          |
| 200176B | 14527 | " " " " (short) .....                                                                                                                                   |
| 200472B | 14527 | " " Thumb Screw .....                                                                                                                                   |
| 202603  | 14527 | " " " " Washer                                                                                                                                          |
| 230015  | 14529 | Box Plaiter (adjustable) complete,<br>Nos. 200472B, 202603, 230001 to<br>230008, 230012, 230014, two<br>200053B, four 200169B and five<br>200048B ..... |

## LAP SEAM FELLER

(ADJUSTABLE)

For Joining Lace to Cloth or Two Pieces of Cloth with  
Double Hemstitch

| No.     | Plate | Name                                                                               |
|---------|-------|------------------------------------------------------------------------------------|
| 230258  | 14581 | Folder on Shank (left) .....                                                       |
| 230259  | 14581 | " " " (right) .....                                                                |
| 230260  | 14581 | " Base Plate .....                                                                 |
| 200157B | 13410 | " " " Screw .....                                                                  |
| 200170B | 13410 | " Screw .....                                                                      |
| 230261  | 14581 | Lap Seam Feller (adjustable) complete, Nos. 230258 to 230260 and two 200170B ..... |

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"FOR SINGER MACHINES"  
are NOT **SINGER** made needles. <sup>2</sup>

## OBSOLETE PARTS

| No.    | Plate | Name                                                                                                                                                                                       |
|--------|-------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 202470 | 12320 | Bobbin Winder Base .....                                                                                                                                                                   |
| 202471 | 12320 | " " Frame .....                                                                                                                                                                            |
| 202472 | 12319 | " " " Spring .....                                                                                                                                                                         |
| 202474 | 12320 | " " Spindle .....                                                                                                                                                                          |
| 227522 | 12319 | " " Stop Latch .....                                                                                                                                                                       |
| 202477 | 12319 | " " " " Thumb<br>Lever .....                                                                                                                                                               |
| 227523 | 12320 | Bobbin Winder complete, Nos.<br>200056E, 200161D, 200221D, 201537H,<br>202470 to 202474, 202477, 202478,<br>227522, three 200299H and two<br>round head wood screws 1 in.,<br>No. 13 ..... |
| 202480 | 12320 | Bobbin Winder Spool Holder Base<br>with 200355H and 202484 .....                                                                                                                           |
| 202481 | 12320 | Bobbin Winder Spool Holder Base<br>Spool Pin .....                                                                                                                                         |
| 202482 | 12319 | Bobbin Winder Spool Holder Ten-<br>sion Disc (lower or upper) .....                                                                                                                        |
| 202483 | 12319 | Bobbin Winder Spool Holder Ten-<br>sion Disc Spring (brass) .....                                                                                                                          |
| 202484 | 12319 | Bobbin Winder Spool Holder Ten-<br>sion Disc Thread Guide .....                                                                                                                            |
| 202485 | 12320 | Bobbin Winder Spool Holder com-<br>plete, Nos. 200011D, 202480,<br>202481, 202483, two 202482 and<br>one wood screw 1 in., No. 13 ..                                                       |
| 213290 | 11652 | Face Plate with 200366H, 202087,<br>203751, 207069, two each 200368H,<br>202090 and three 200397H .....                                                                                    |
| 213266 | 11097 | Face Plate Thread Guide .....                                                                                                                                                              |
| 213291 | 11652 | Face Plate complete, Nos. 200303H,<br>200577H, 202088, 213213, 213214,<br>213231, 213267, 213290, two each<br>200290C, 201537H, 204059, 203753<br>and three 225604 .....                   |
| 203250 | 12308 | Hook Driving Shaft Collar with two<br>200393C .....                                                                                                                                        |
| 213198 | 13410 | Needle Vibrating Cam and Gear<br>Driving Gear, 16 teeth, with two<br>200383C .....                                                                                                         |
| 213254 | 11098 | Needle Vibrating Cam and Gear, 48<br>teeth, for 214008 .....                                                                                                                               |

| No.    | Plate | Name                                                                                 |
|--------|-------|--------------------------------------------------------------------------------------|
| 214008 | —     | Needle Vibrating Cam and Gear<br>213254 with 200079H and 213276,<br>for 213217 ..... |
| 213217 | —     | Needle Vibrating Cam and Gear<br>214008 with 200062H and 213203..                    |
| 213811 | 13410 | Piercer Bar Lifting Rock Shaft<br>Bushing .....                                      |

Nos. 229681 to 229684, for 229705 and 229727

|        |       |                                                                                                                                                                                |
|--------|-------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 229681 | 14204 | Presser Foot Bracket .....                                                                                                                                                     |
| 229682 | 14204 | " " Heel Spring .....                                                                                                                                                          |
| 229683 | 14204 | " " " " Post .....                                                                                                                                                             |
| 229684 | 14204 | " " " " Washer .....                                                                                                                                                           |
| 229703 | 14204 | " " Plate (left), for 229769 .....                                                                                                                                             |
| 229704 | 14204 | " " " (right), for 229795 .....                                                                                                                                                |
| 206651 | —     | " " Shank (left) with<br>229949, for 229763 and 229769 ..                                                                                                                      |
| 229769 | 13407 | Presser Foot Shank 206651 with<br>221479 and 229703, for 229705 ...                                                                                                            |
| 206652 | —     | Presser Foot Shank (right) with<br>229949, for 229764 and 229795 ..                                                                                                            |
| 229795 | 13407 | Presser Foot Shank 206652 with<br>221479 and 229704, for 229705 ...                                                                                                            |
| 229705 | 14204 | Presser Foot (hinged) complete,<br>Nos. 206487, 207127, 229681 to<br>229684, 229769, 229795, two each<br>200057F, 201537E and 207125, to be<br>used with Presser Bar 204251 .. |
| 229725 | 13408 | Presser Foot Plate (left), for 229763 ..                                                                                                                                       |
| 229726 | 13408 | " " " (right), for 229764 ..                                                                                                                                                   |
| 229763 | 13408 | " " Shank 206651 with<br>221479 and 229725, for 229727 ..                                                                                                                      |
| 229764 | 13408 | Presser Foot Shank 206652 with<br>221479 and 229726, for 229727 ..                                                                                                             |
| 229727 | 13408 | Presser Foot (hinged) complete,<br>Nos. 206487, 207127, 229681 to<br>229684, 229763, 229764, two each<br>200057F, 201537E and 207125, to<br>be used with Presser Bar 204251 .. |
| 229731 | 13409 | Presser Foot Plate (left) with<br>200486D and 213648, for 229791 ..                                                                                                            |
| 229732 | 13409 | Presser Foot Plate (right), for<br>229792 .....                                                                                                                                |
| 229791 | 13409 | Presser Foot Shank 207136 with<br>200175H, 205979, 207140 and<br>229731, for 229733 .....                                                                                      |
| 229792 | 13409 | Presser Foot Shank 207137 with<br>200175H, 205979, 207140 and<br>229732, for 229733 .....                                                                                      |

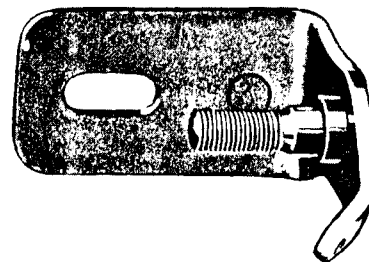
| No.    | Plate | Name                                                                                                                                                        |
|--------|-------|-------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 213648 | 13409 | Presser Foot (left) Strip Guide,<br>for 229731 .....                                                                                                        |
| 229733 | 13409 | Presser Foot (hinged) (adjustable)<br>complete, Nos. 207138, 229791,<br>229792, two each 200112H and<br>228026, to be used with Presser<br>Bar 221468 ..... |
| 229739 | 13409 | Presser Foot (hinged) (adjustable)<br>complete, Nos. 207138, 229787,<br>229788, two each 200112H and<br>228026, to be used with Presser<br>Bar 221468 ..... |
| 234703 | 13406 | Tension Release Lever Stop .....                                                                                                                            |
| 202872 | 13406 | " " " " Posi-<br>tion Pin .....                                                                                                                             |
| 213805 | 11101 | Thread Controller Roller Guard<br>Washer Thread Guard, for 203745 ..                                                                                        |
| 203745 | —     | Thread Controller complete, Nos.<br>200300C, 200581H, 202098, 204274,<br>204275, 204333 and 213805, for<br>213231 .....                                     |
| 213231 | 13410 | Thread Controller and Spring com-<br>plete, Nos. 202085 and 203745, for<br>213291 .....                                                                     |

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PLATE 10881—FULL SIZE

225461



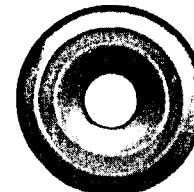
200082



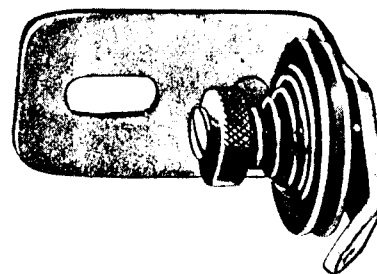
202104



2102



225462



202407



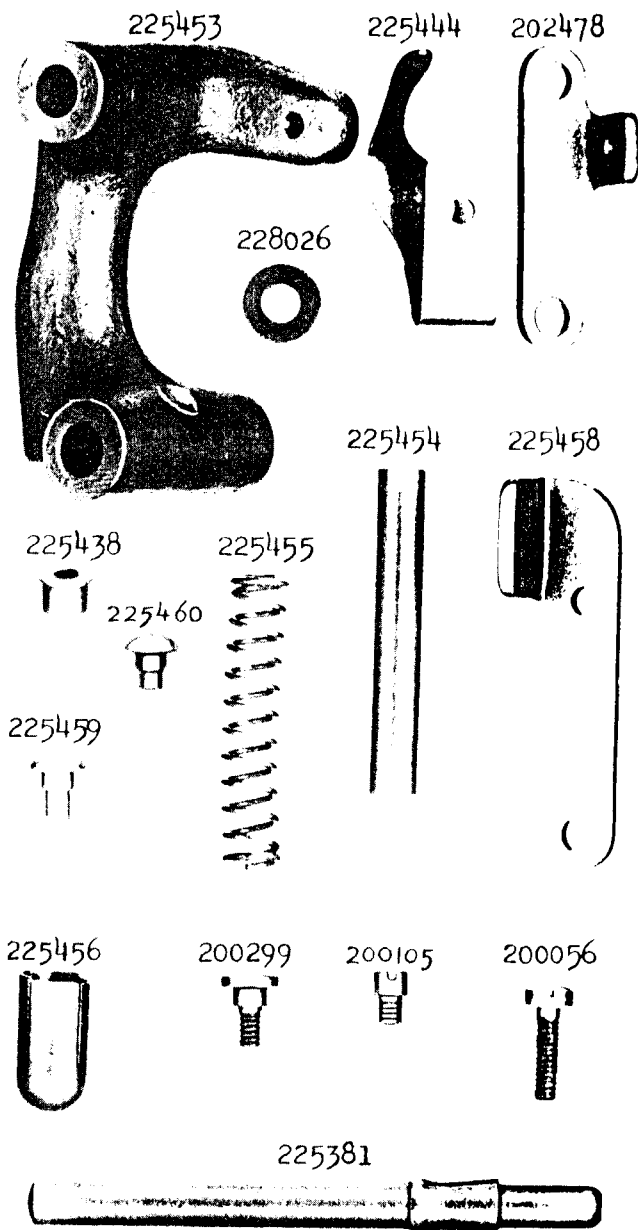
201499



201572



# PLATE 10884 - FULL SIZE



# PLATE 10885 - ONE-FOURTH SIZE

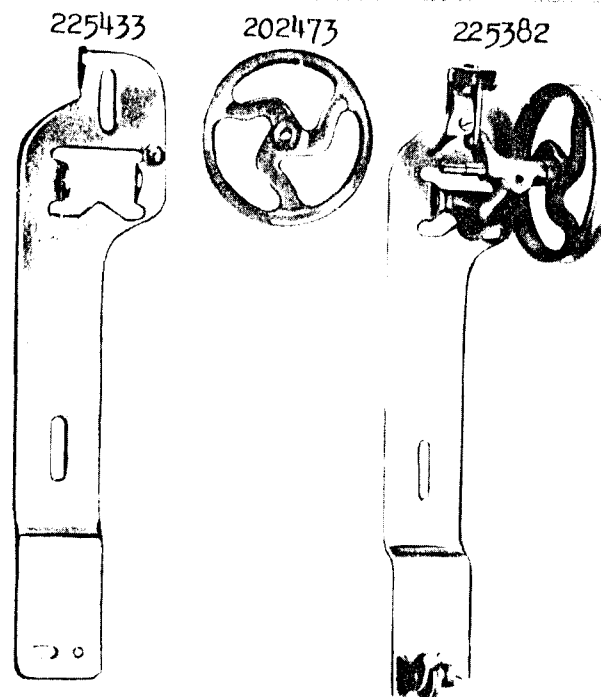
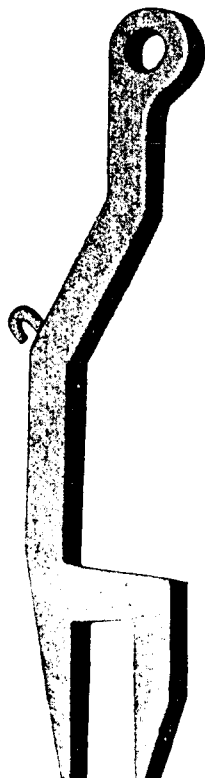


PLATE 11090—FULL SIZE

200571 200075 200348 201535



213789



200036



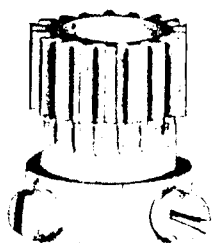
201850



201517



213218



213187

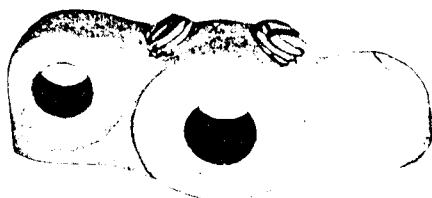
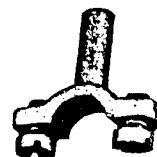
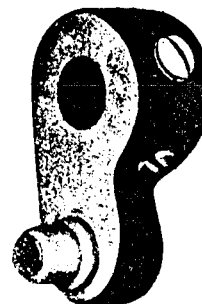


PLATE 11097—FULL SIZE

213284 213261 200117 213266



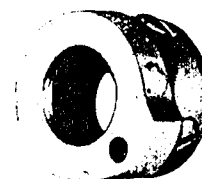
213246



213233



213234



213264



200809



PLATE 11098—ONE-HALF SIZE

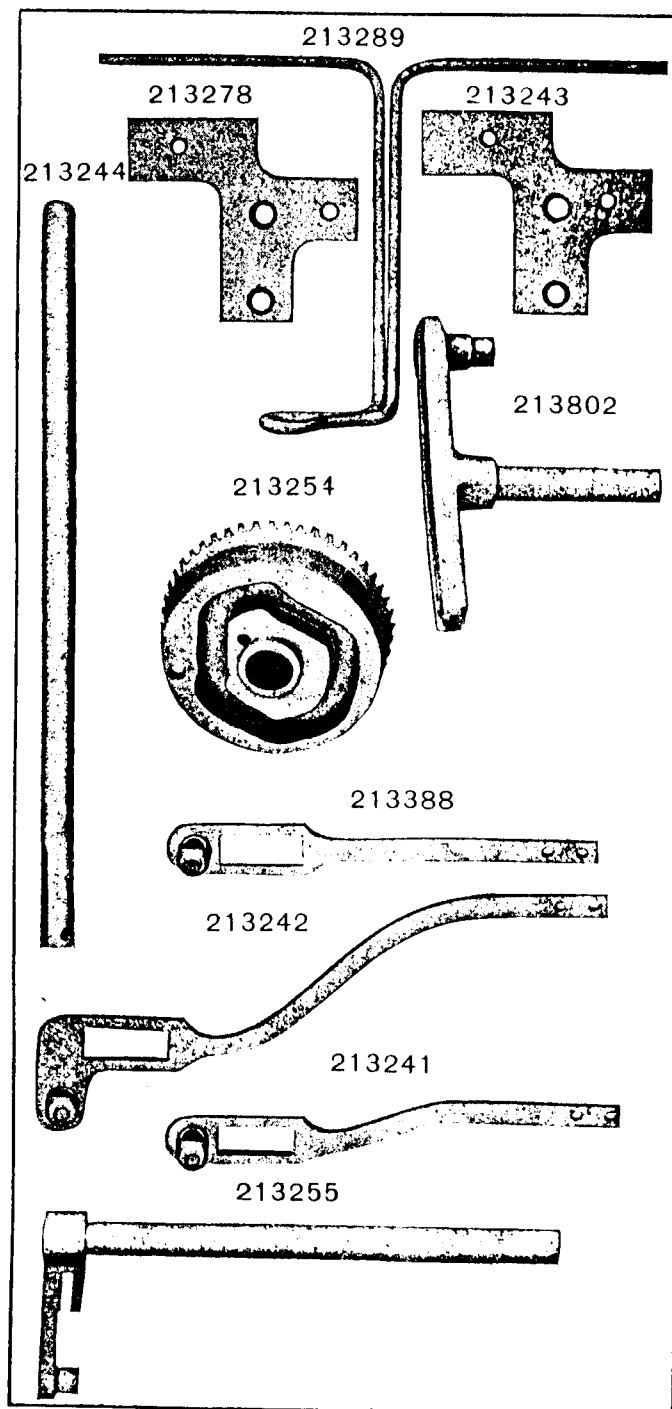


PLATE 11100—FULL SIZE

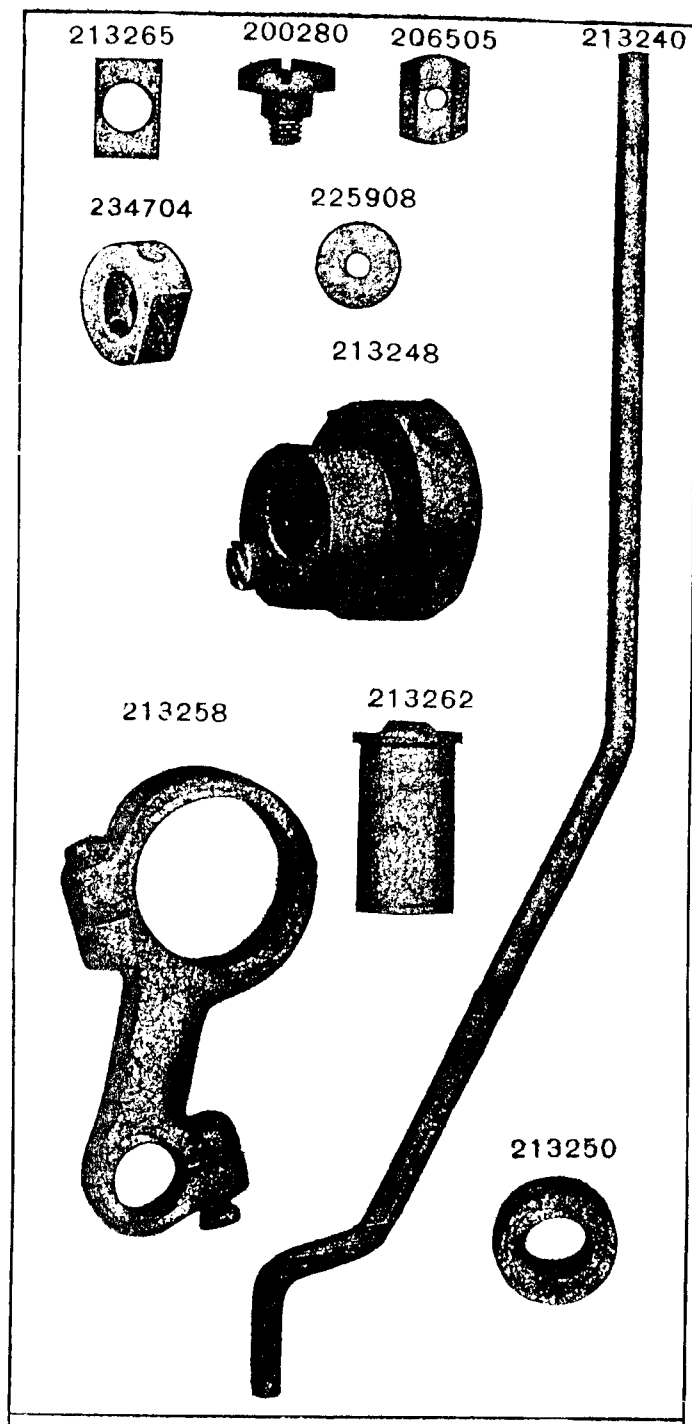
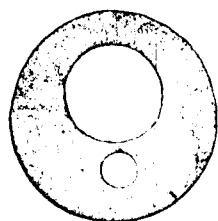


PLATE 11101—FULL SIZE

213740

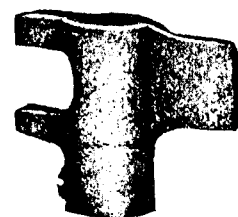


213249

200740



201520



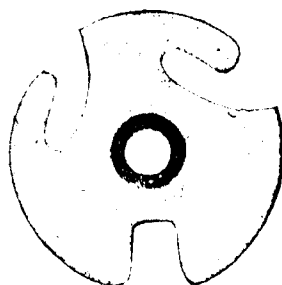
213253



213805



213267



213809



PLATE 11103—FULL SIZE

213276



200526



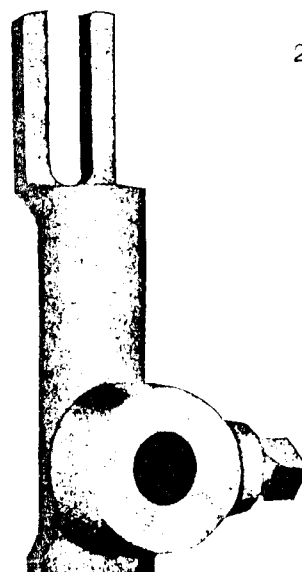
200141



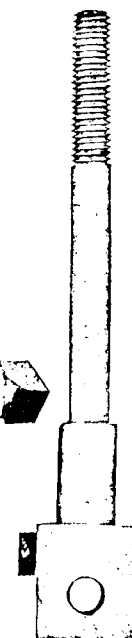
213274



213269



213270



200199



213275



213273



227447

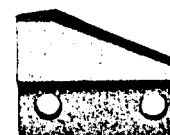


PLATE 11635-FULL SIZE

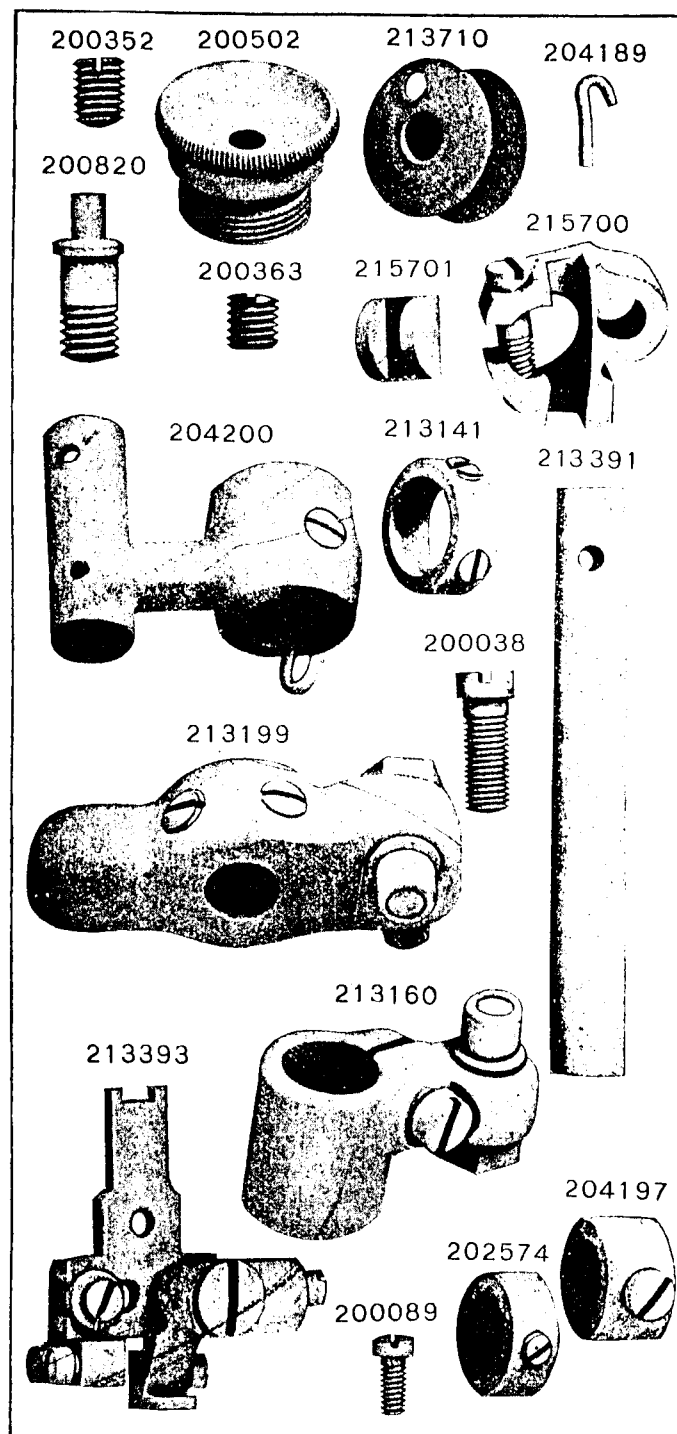


PLATE 11636-ONE-FOURTH SIZE

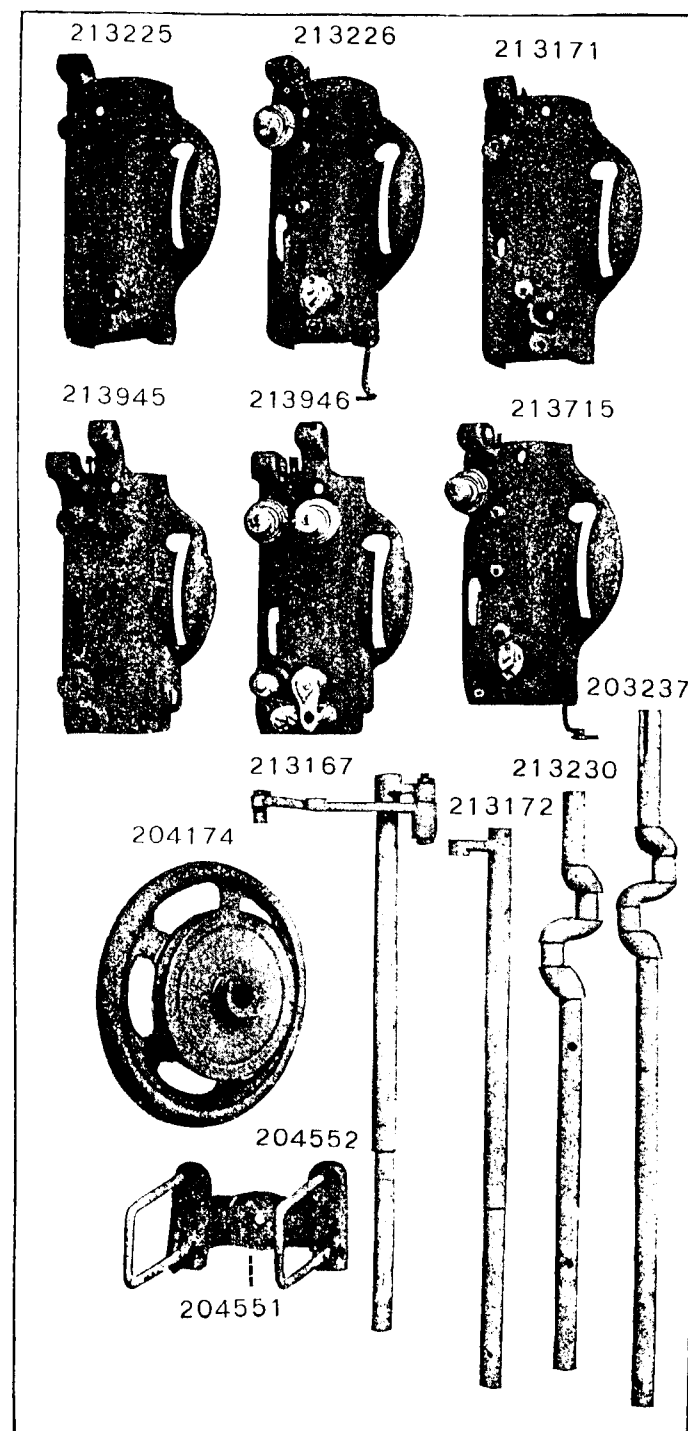


PLATE 11642 -FULL SIZE

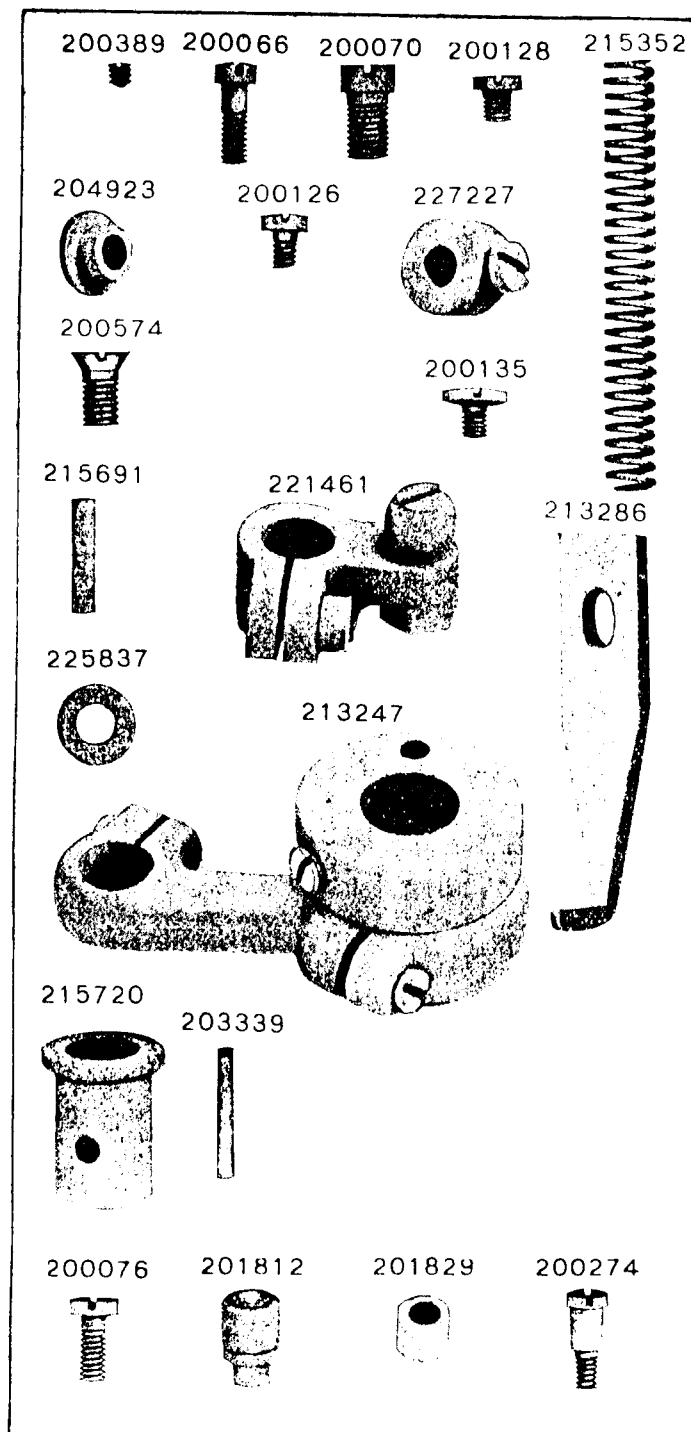


PLATE 11644 FULL SIZE

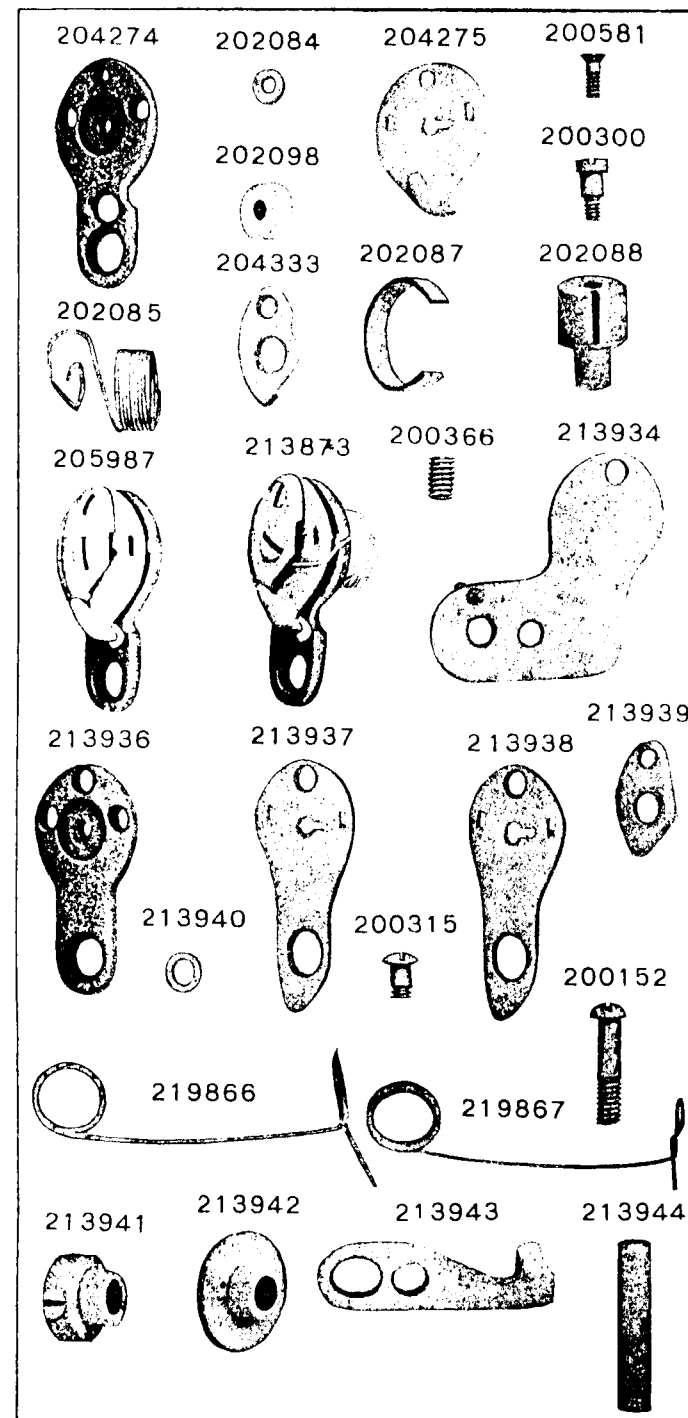


PLATE 11649—FULL SIZE

230190



230192

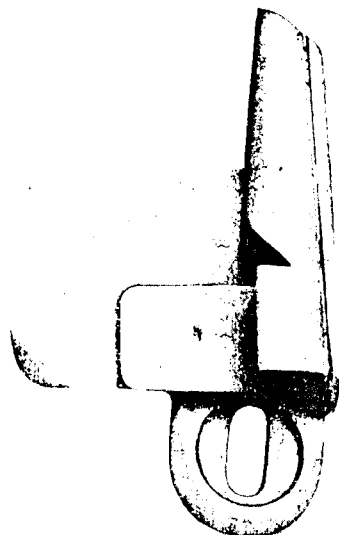
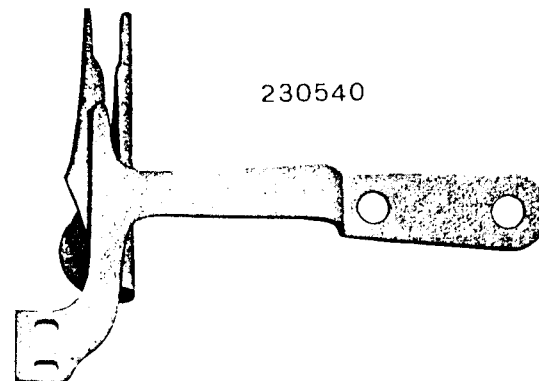
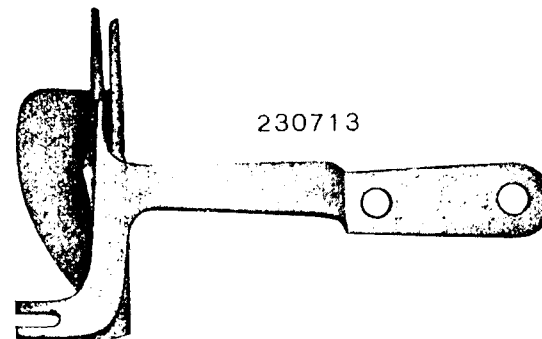


PLATE 11650—ONE-HALF SIZE

230540



230713



230715

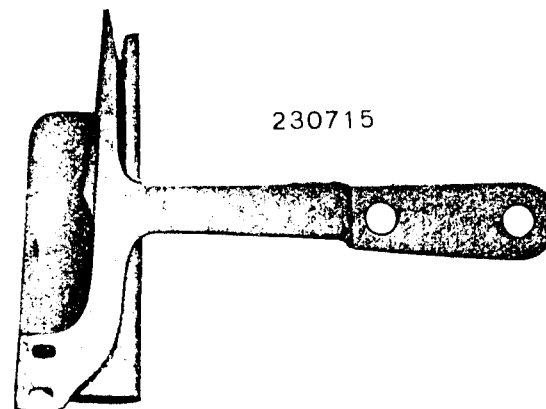
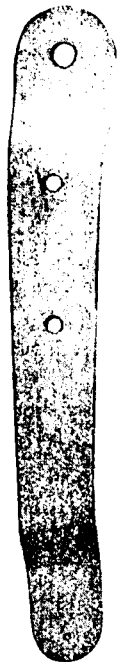


PLATE 11651 ONE-HALF SIZE

230756



230539



230714

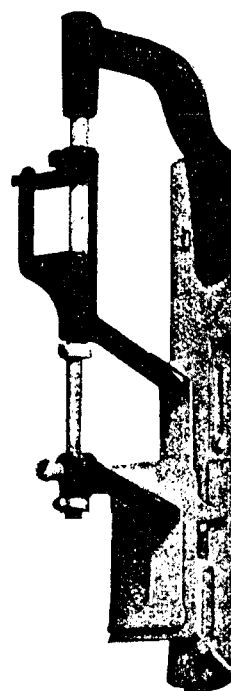


230716

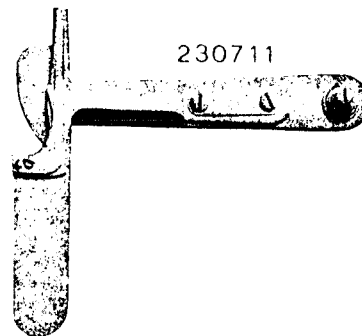


PLATE 11652--ONE-FOURTH SIZE

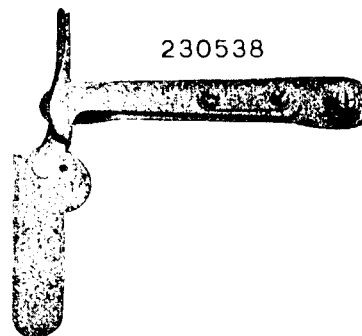
225842



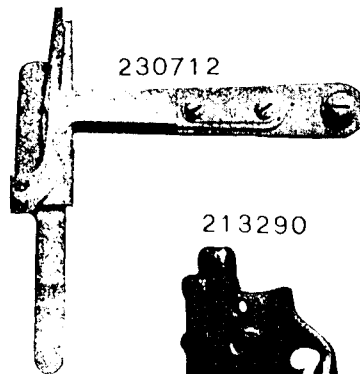
230711



230538



230712



213290



213291

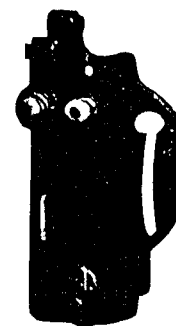


PLATE 12153—ONE-HALF SIZE

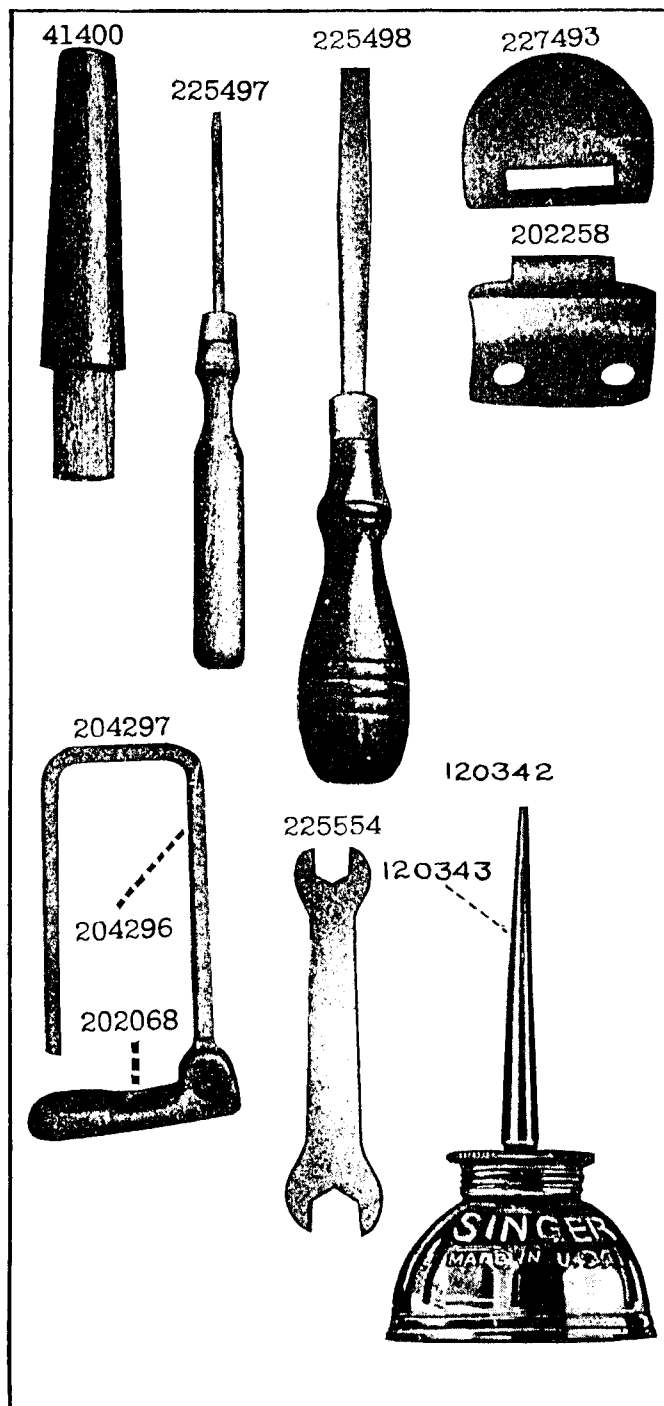
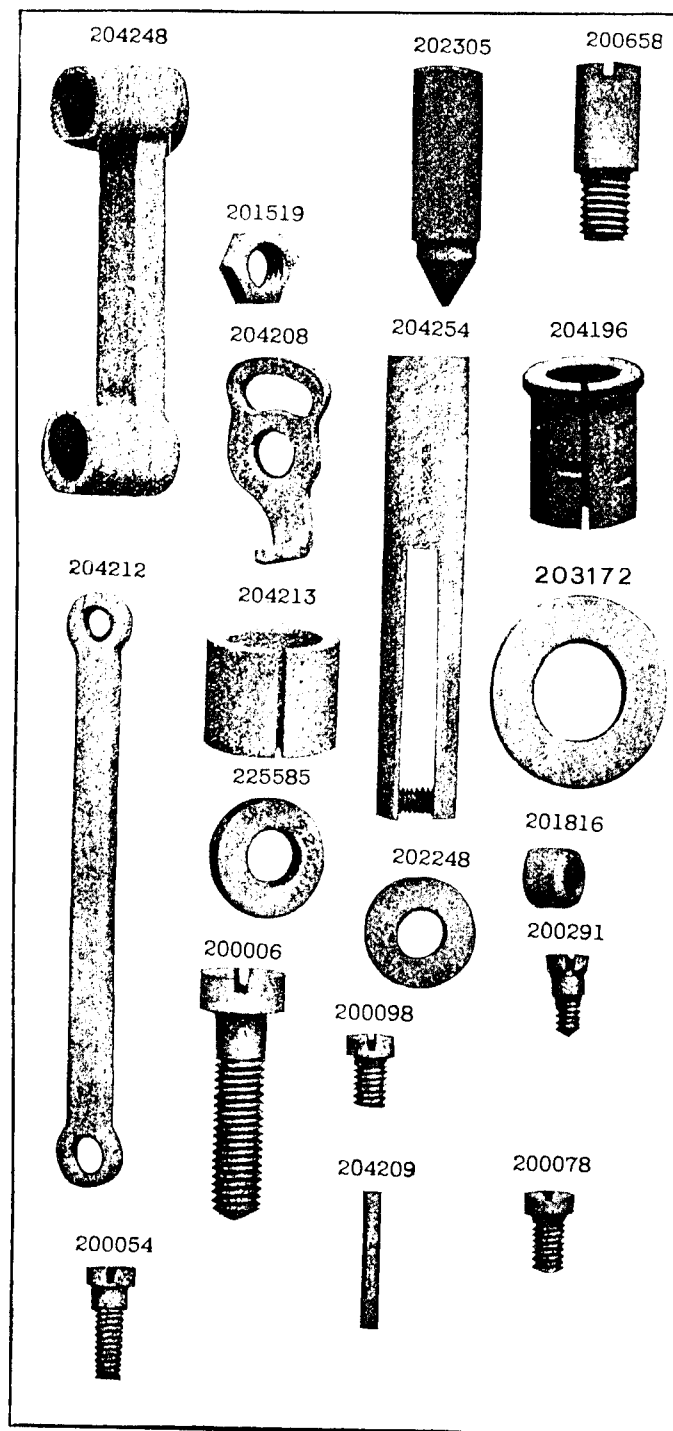
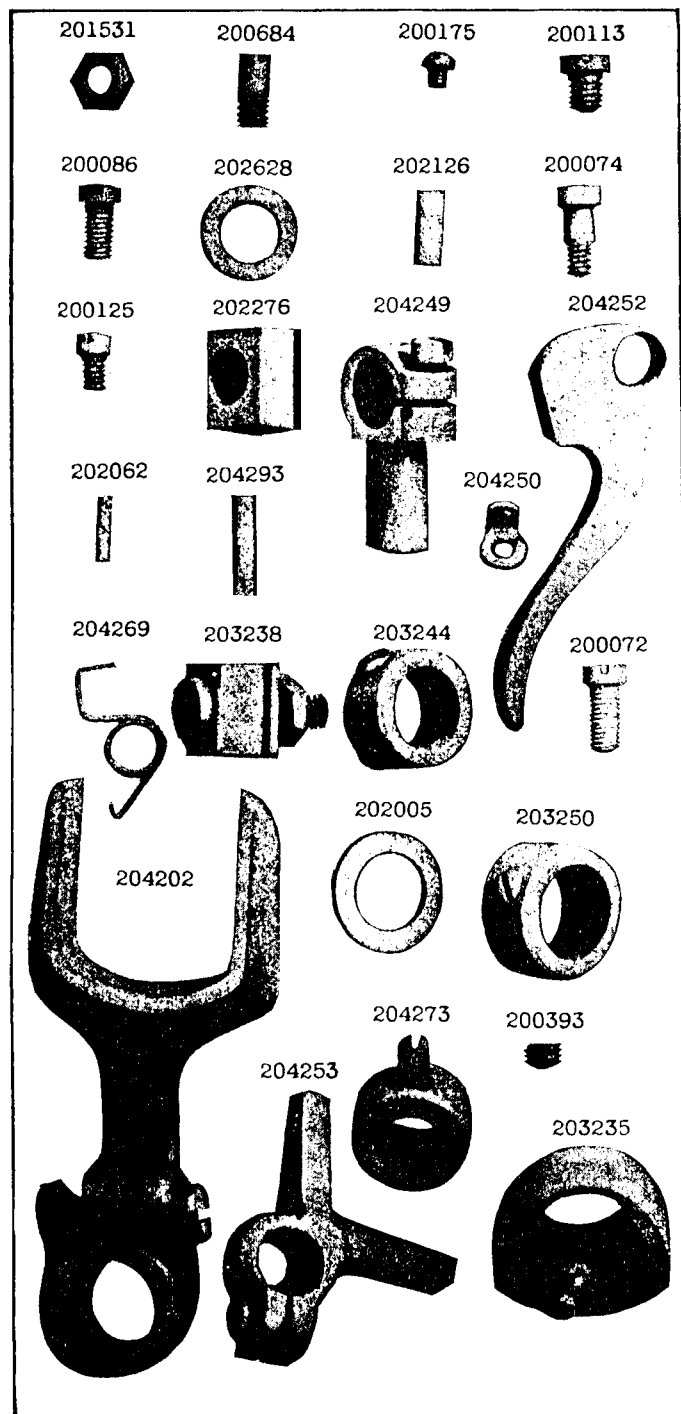


PLATE 12307—FULL SIZE



# PLATE 12308-FULL SIZE



# PLATE 12311-FULL SIZE

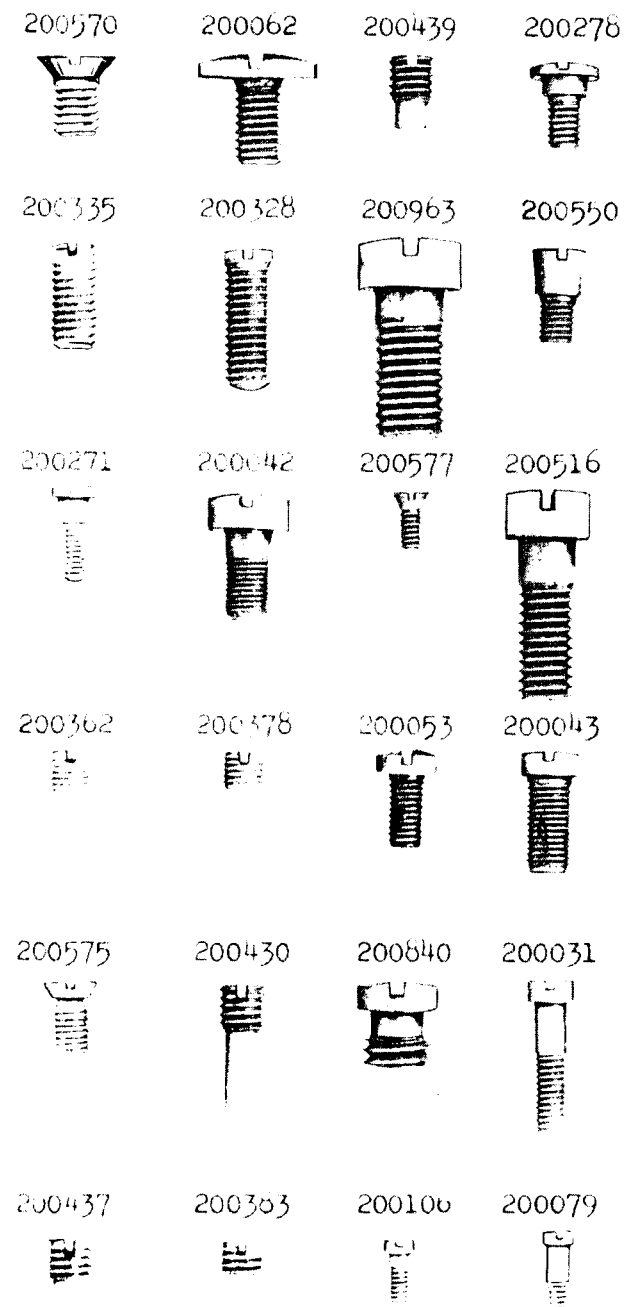


PLATE 12312 -FULL SIZE

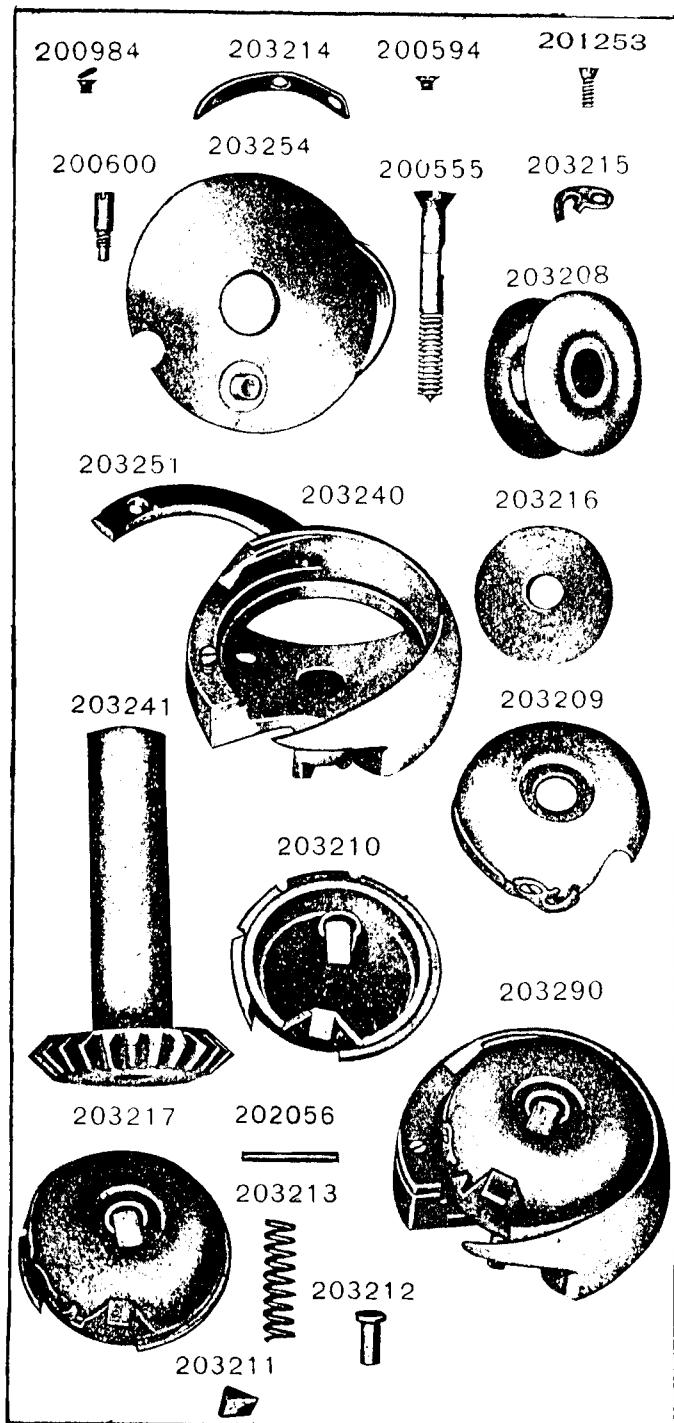


PLATE 12319 -FULL SIZE

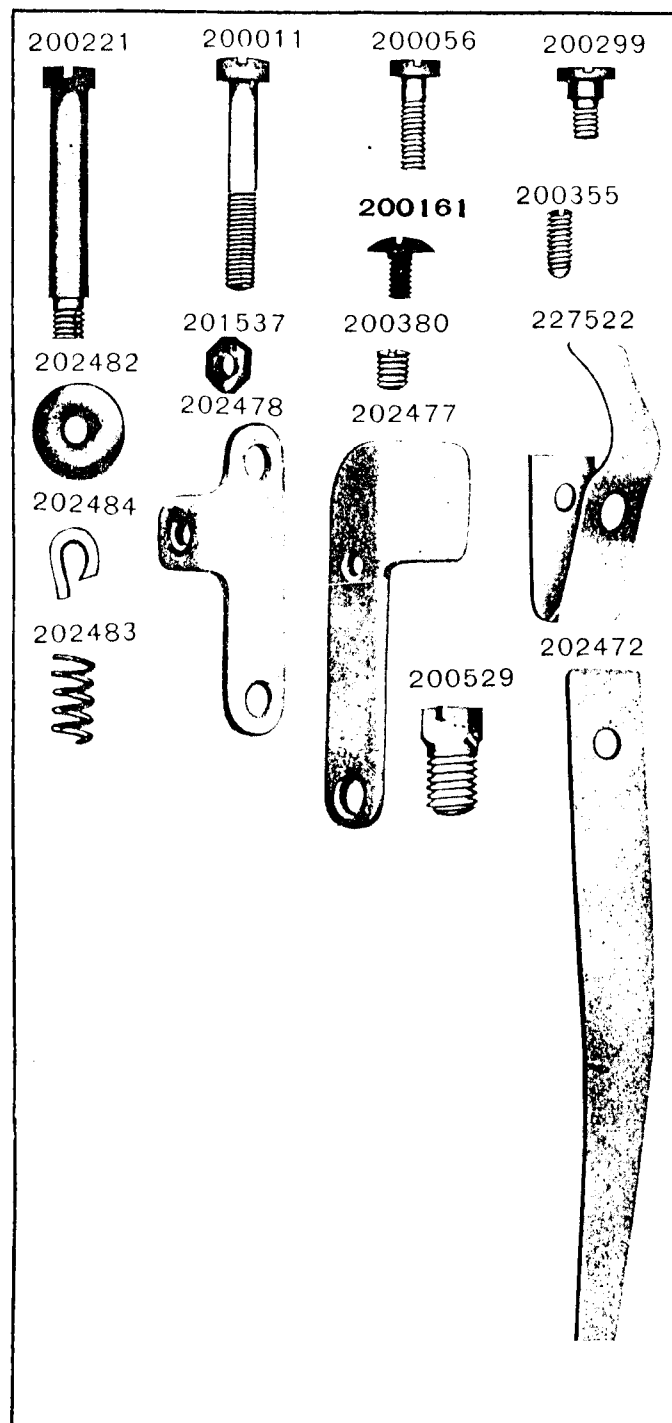


PLATE 12320—ONE-HALF SIZE

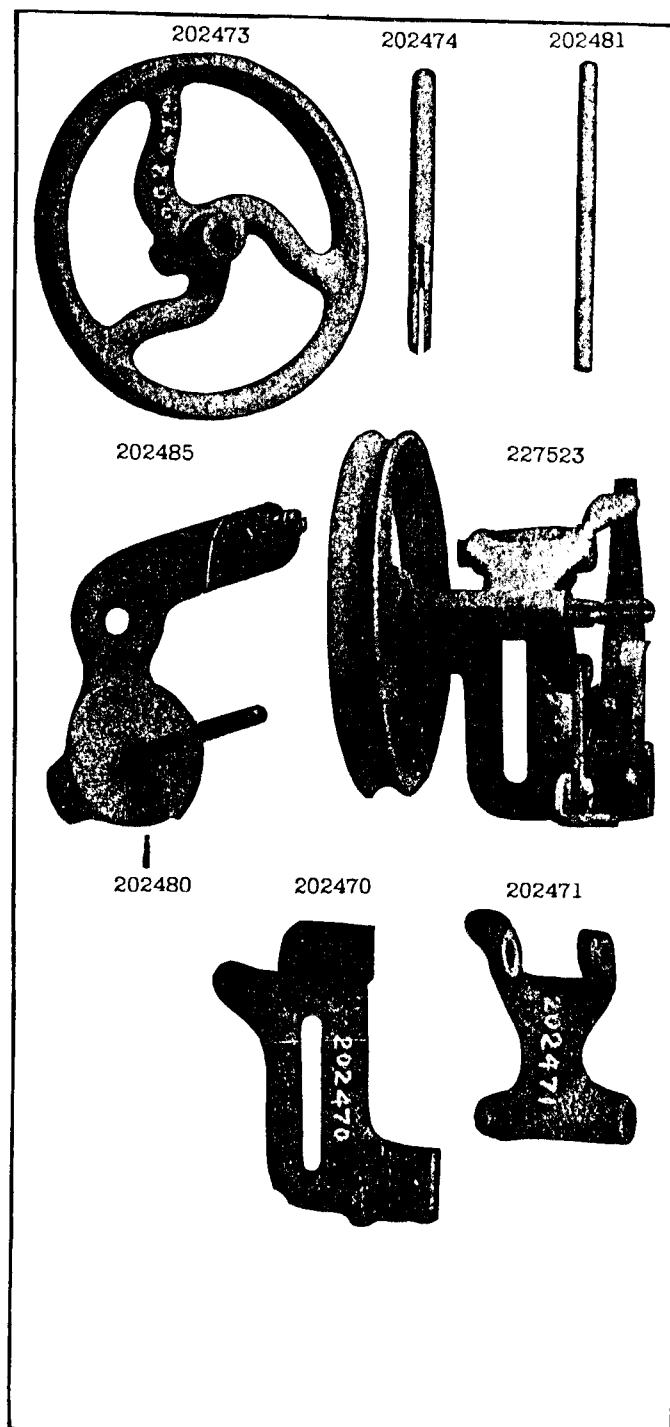


PLATE 12335—FULL SIZE

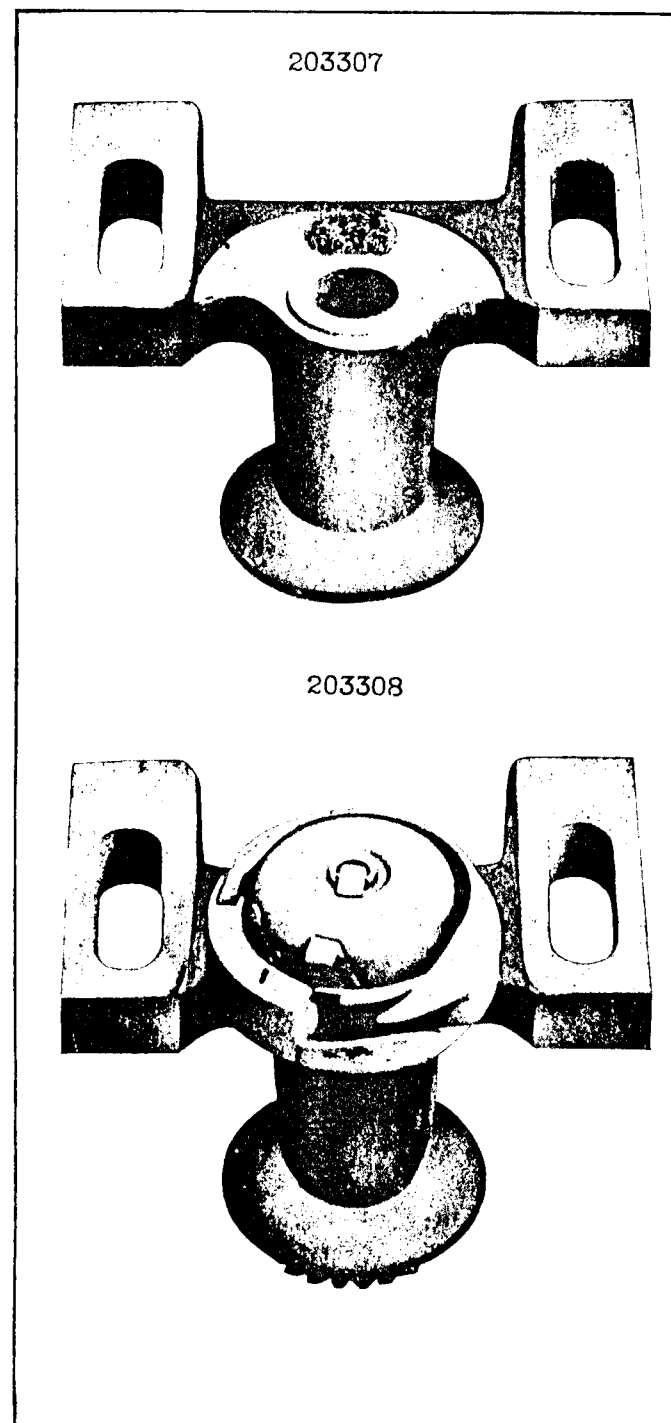


PLATE 12344 - FULL SIZE

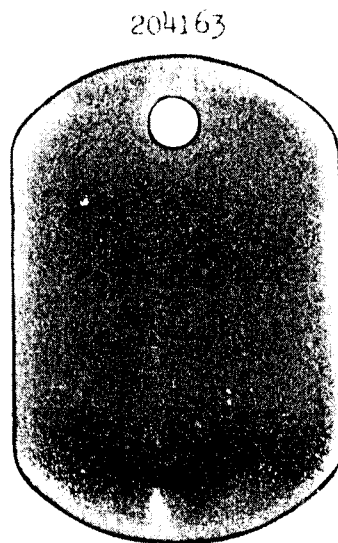
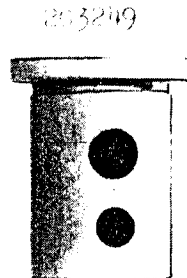
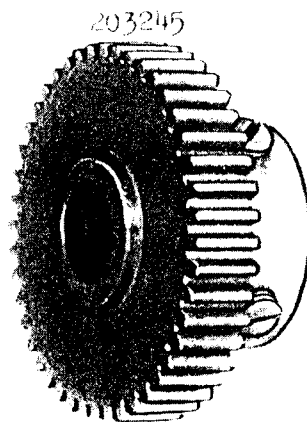
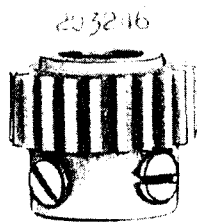
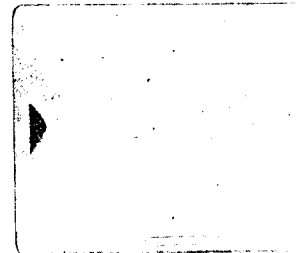
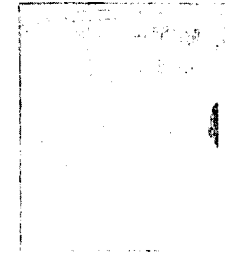


PLATE 13401 - ONE-HALF SIZE

203301



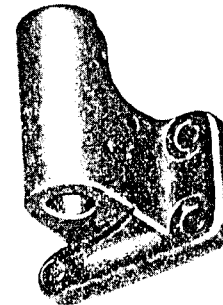
206125



204804



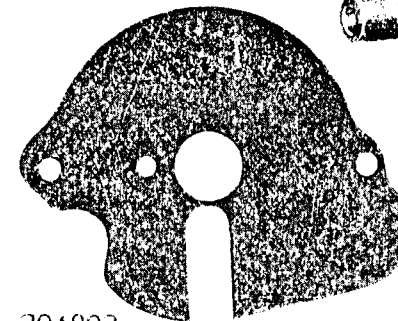
213245



204193



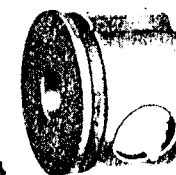
213257



204802



204801



206206

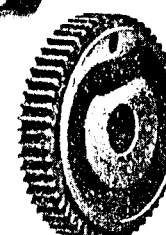


PLATE 13402—FULL SIZE

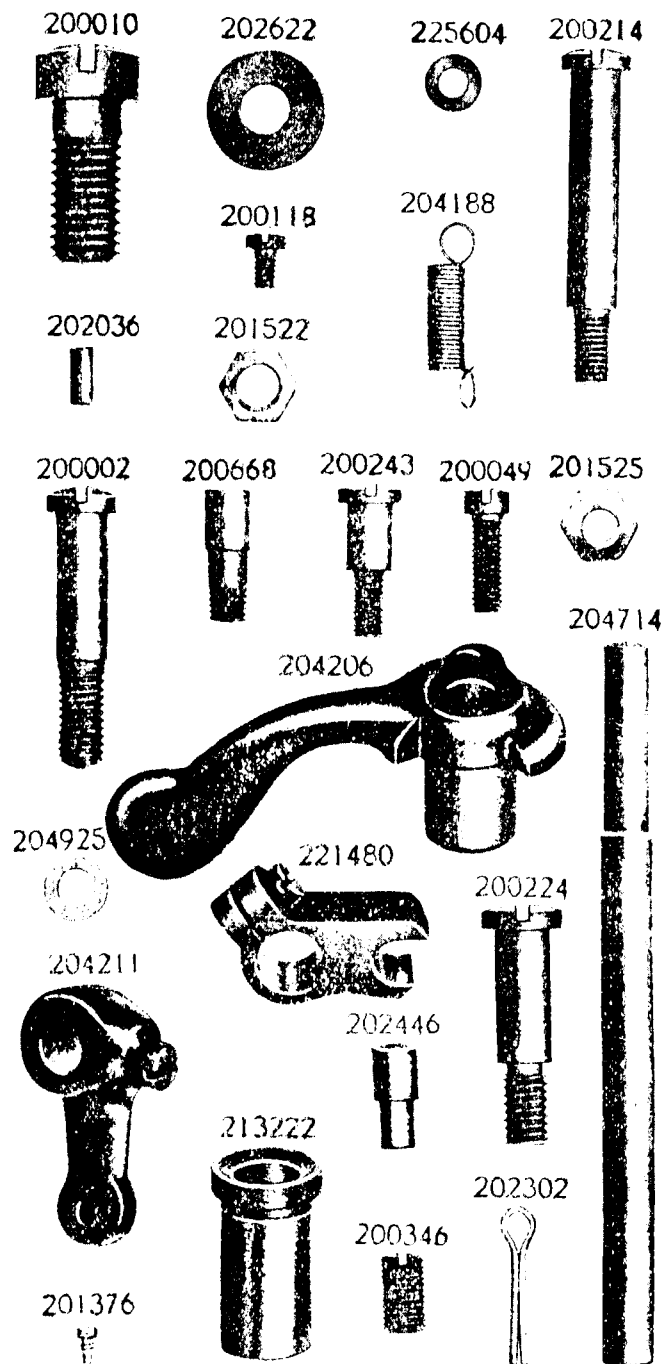


PLATE 13403—ONE-HALF SIZE

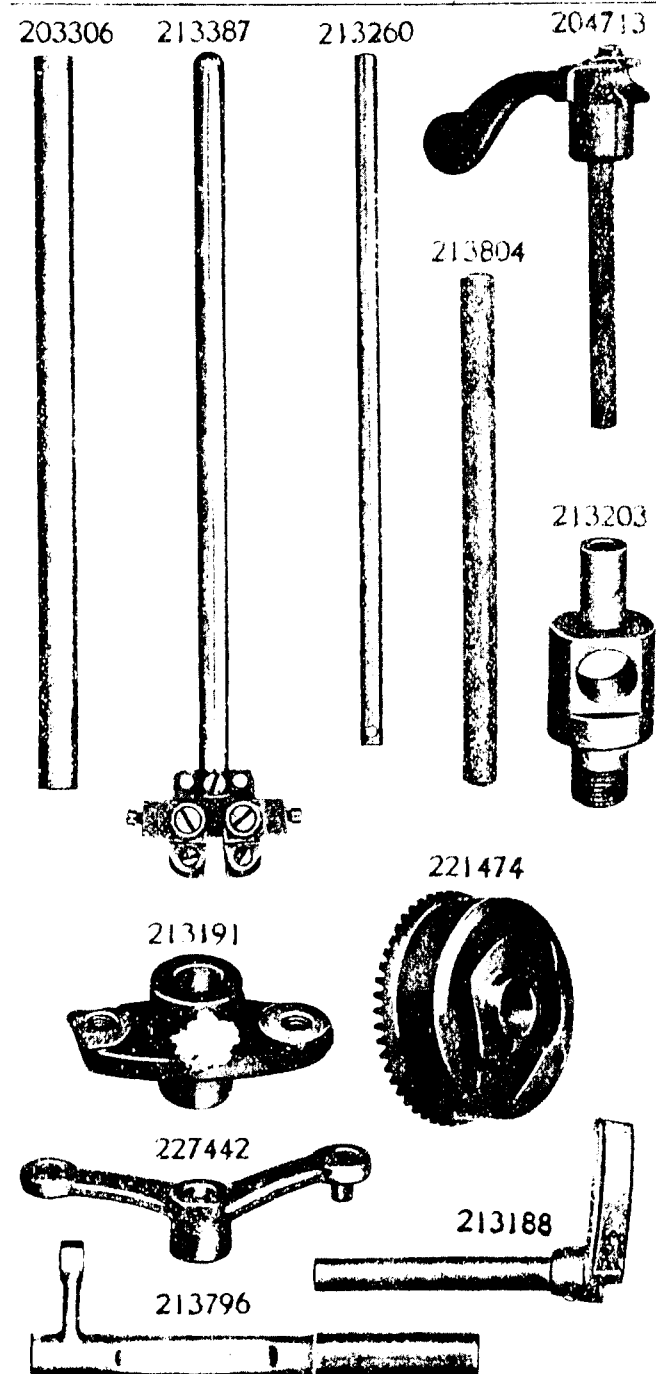


PLATE 13404--FULL SIZE

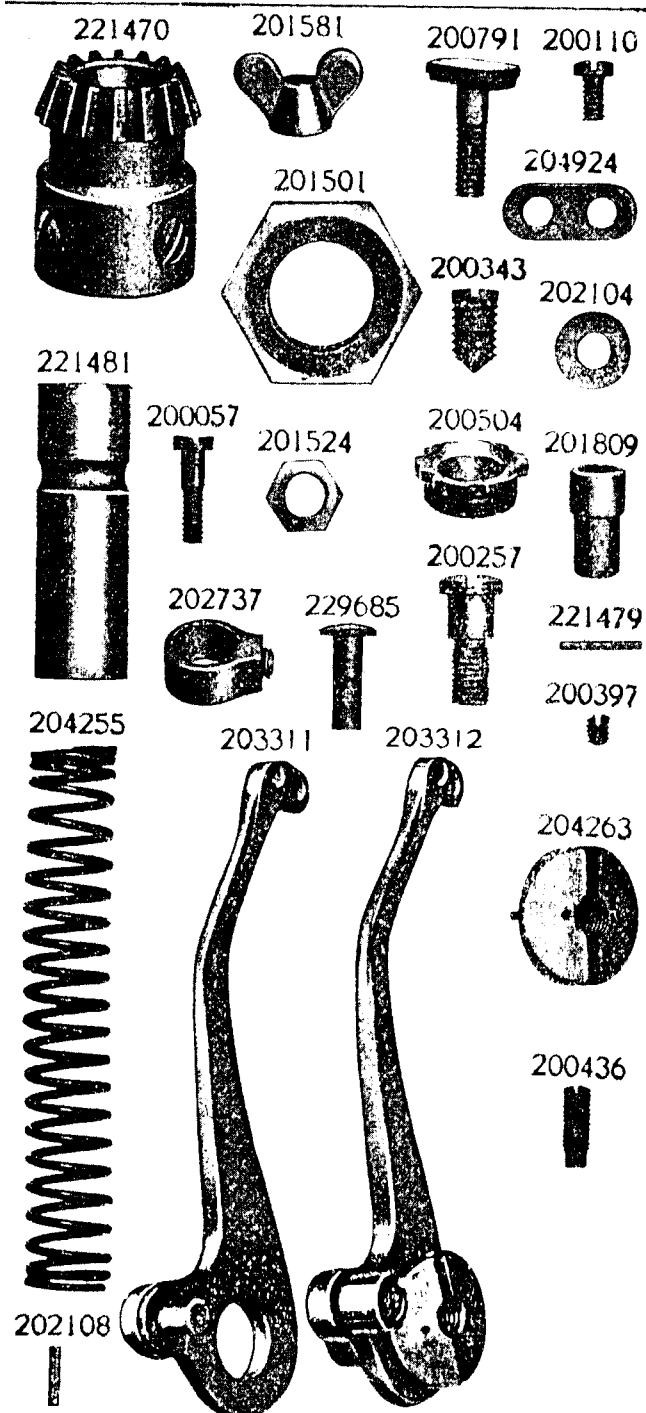


PLATE 13405--ONE-HALF SIZE

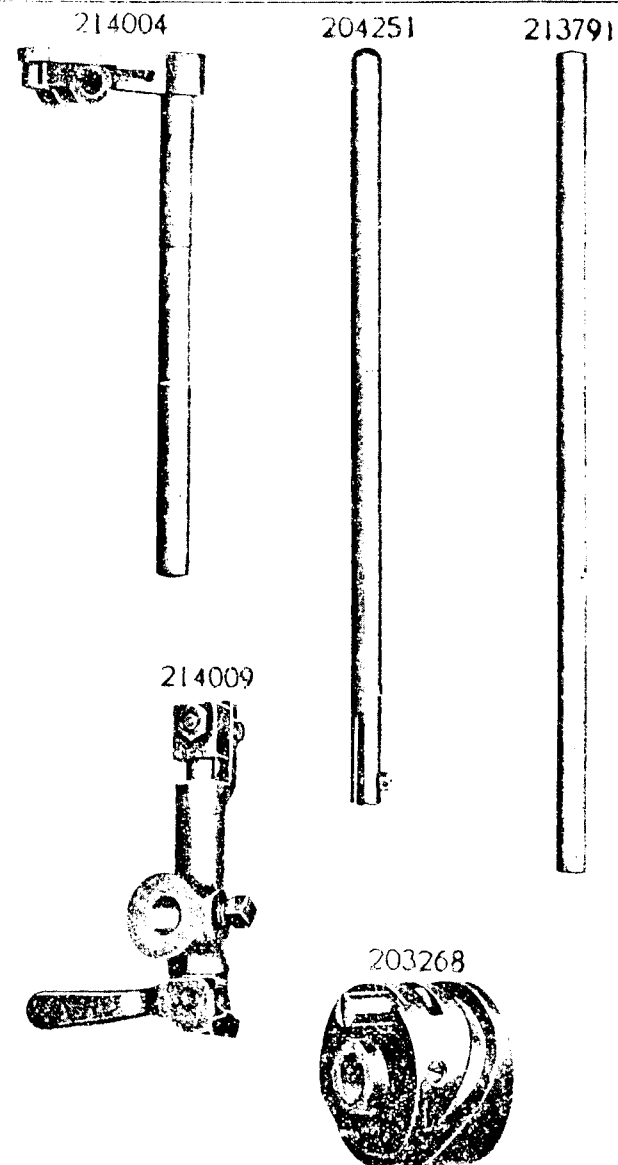
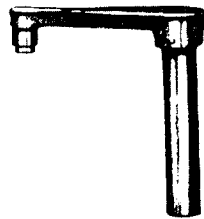


PLATE 13430—ONE-HALF SIZE

203748



213271

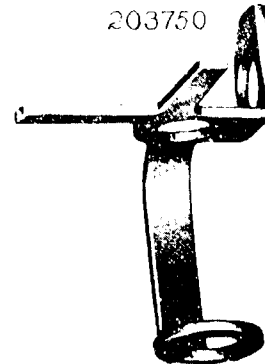


227309

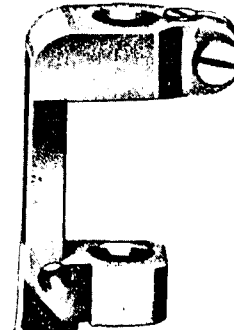


PLATE 13431—FULL SIZE

203750



229772



204058



204059



202091



202092



204281



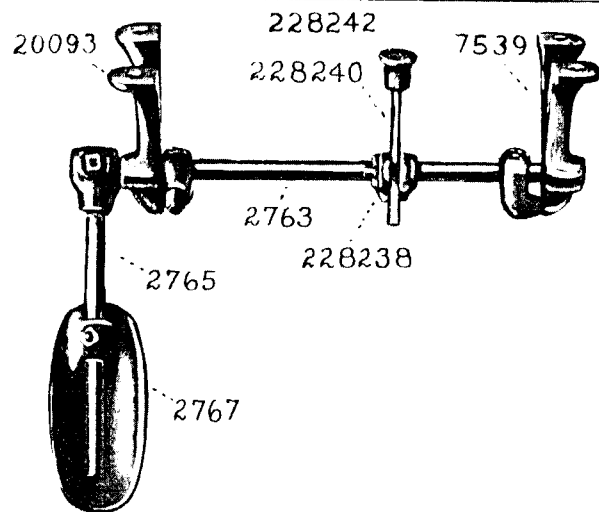
203376



200368



PLATE 14171—ONE-FOURTH SIZE



FULL SIZE

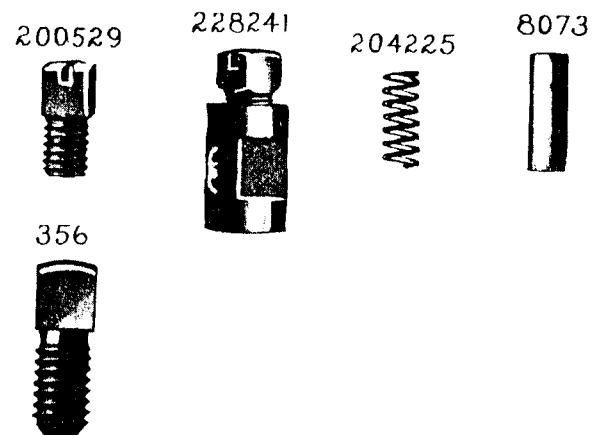
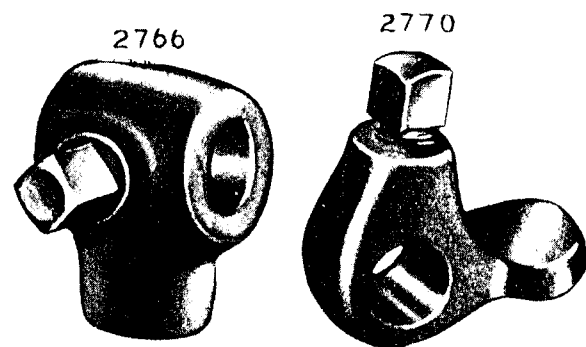


PLATE 14204—FULL SIZE

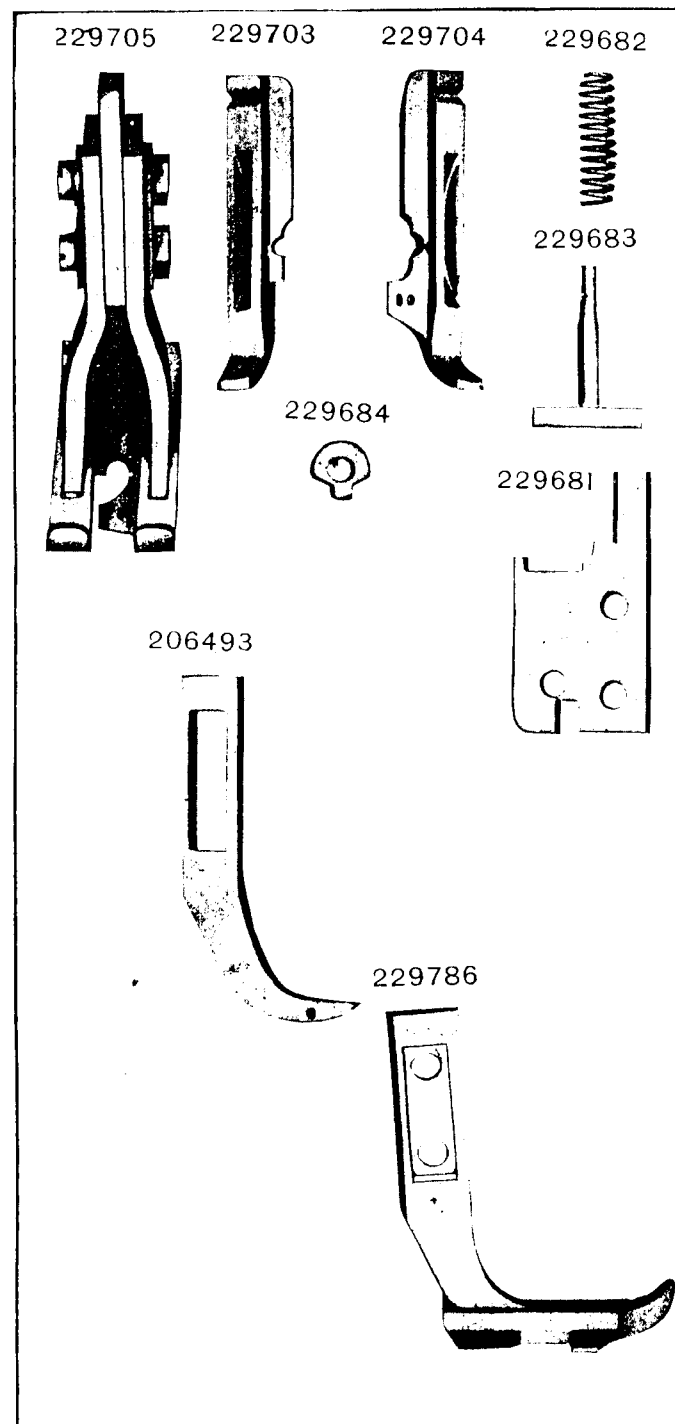


PLATE 14214—FULL SIZE

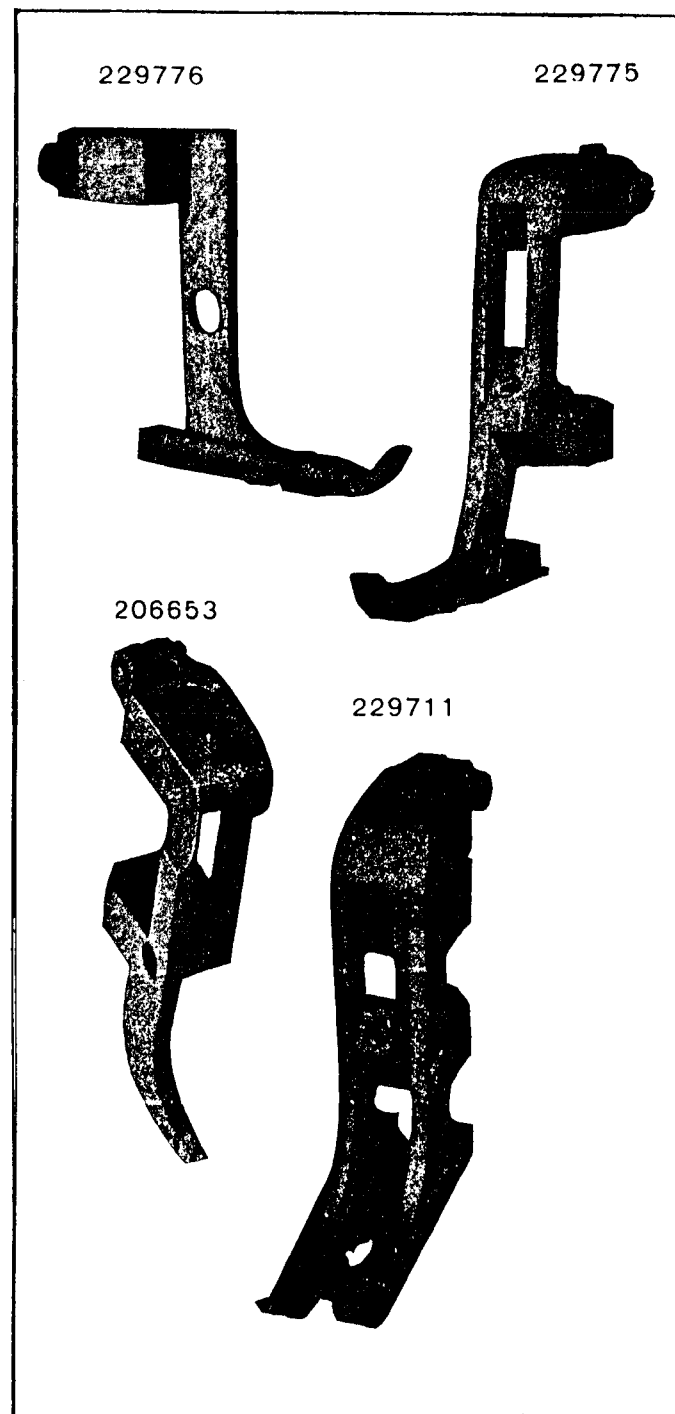


PLATE 14526—ONE-HALF SIZE

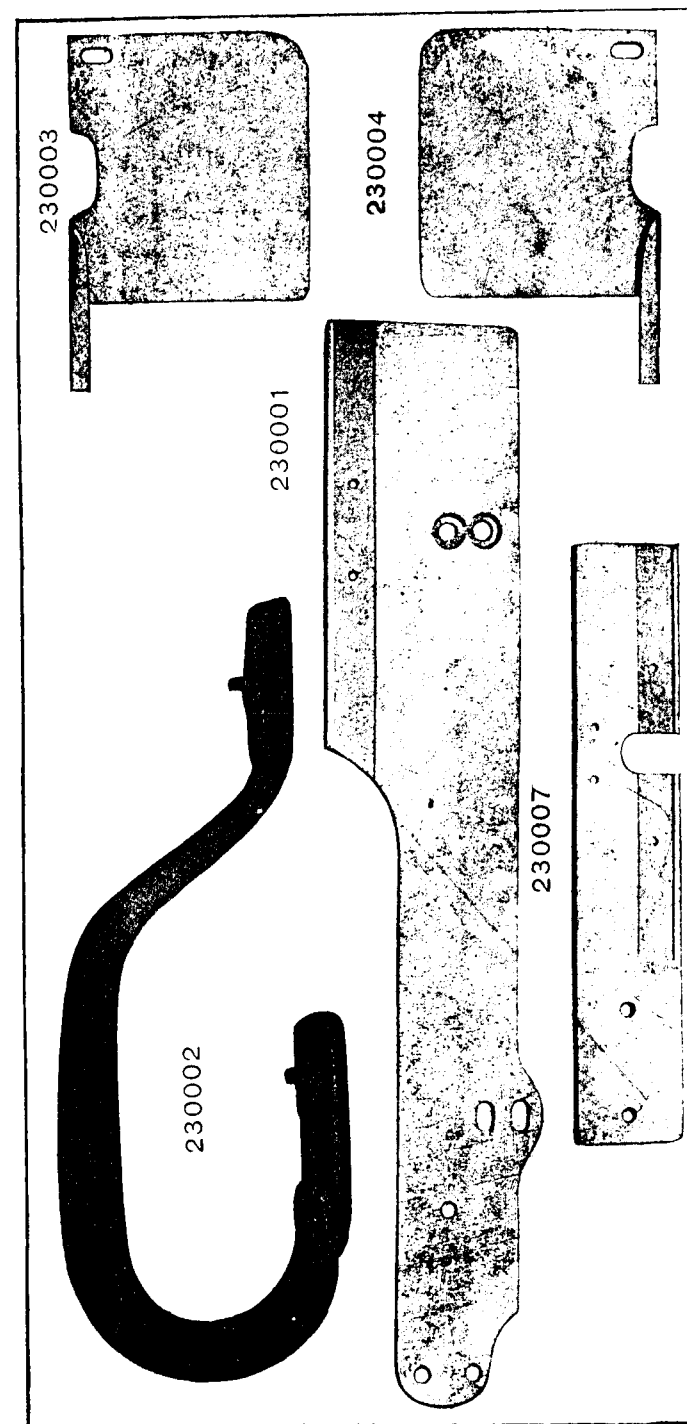


PLATE 14627—FULL SIZE

200048 200053 200472 200344



200169 200186 200176



230008

202603



230005



230006

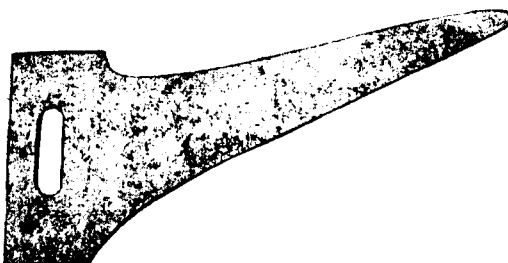


PLATE 14528—FULL SIZE

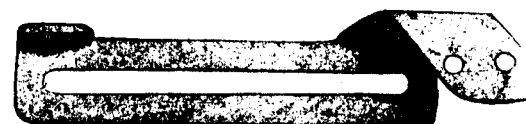
230010



230009



230013



230011

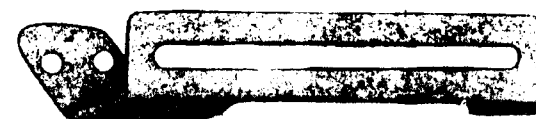


PLATE 14529—ONE-HALF SIZE

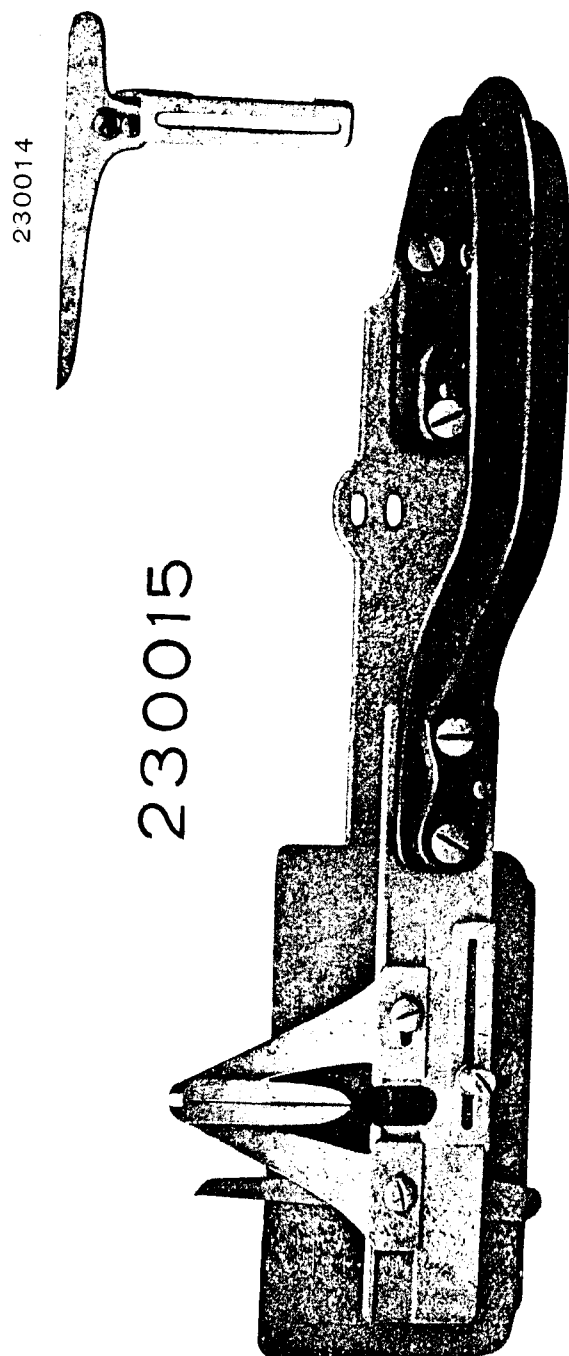


PLATE 14581—FULL SIZE

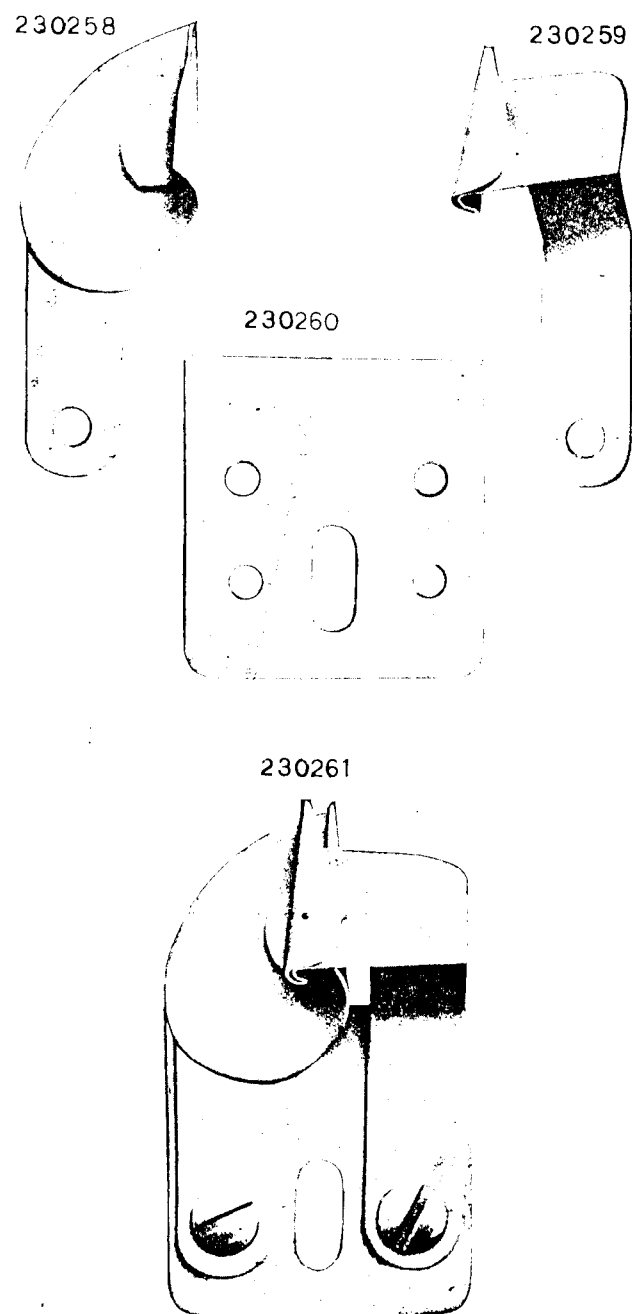


PLATE 14606--ONE-HALF SIZE

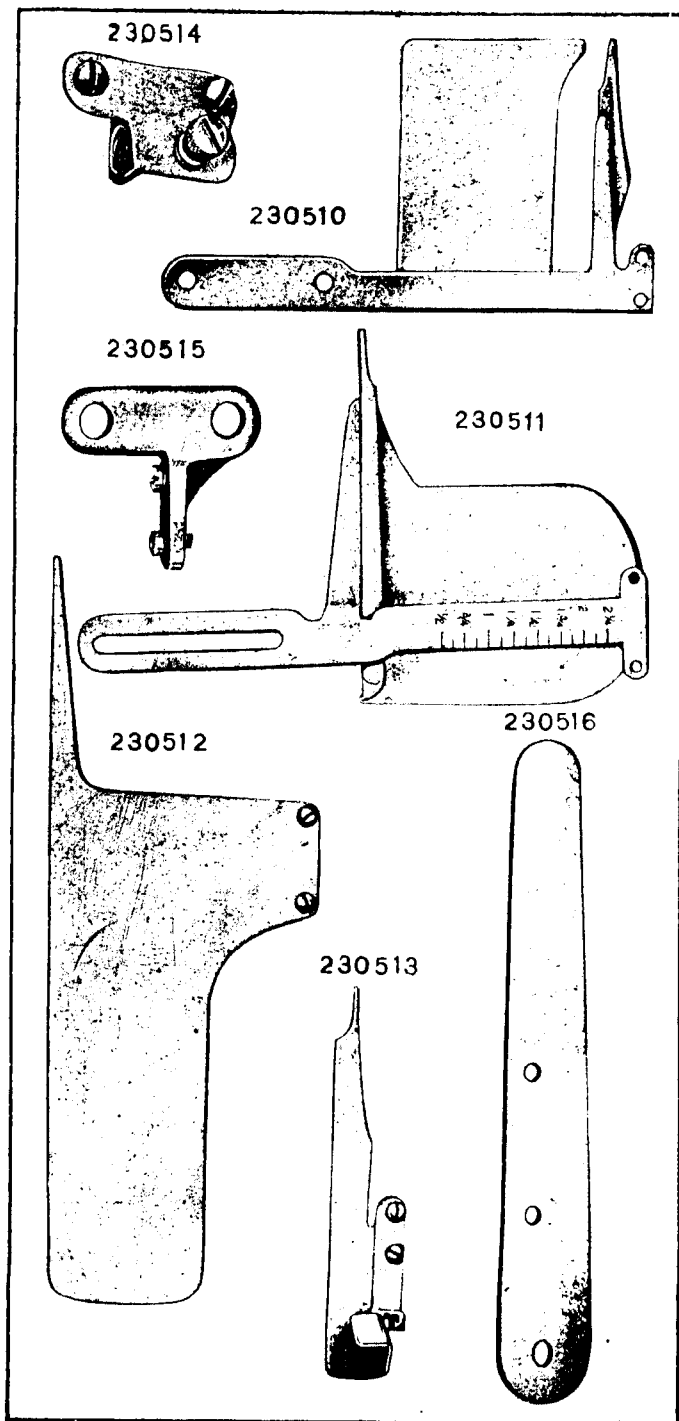


PLATE 14606--ONE-HALF SIZE

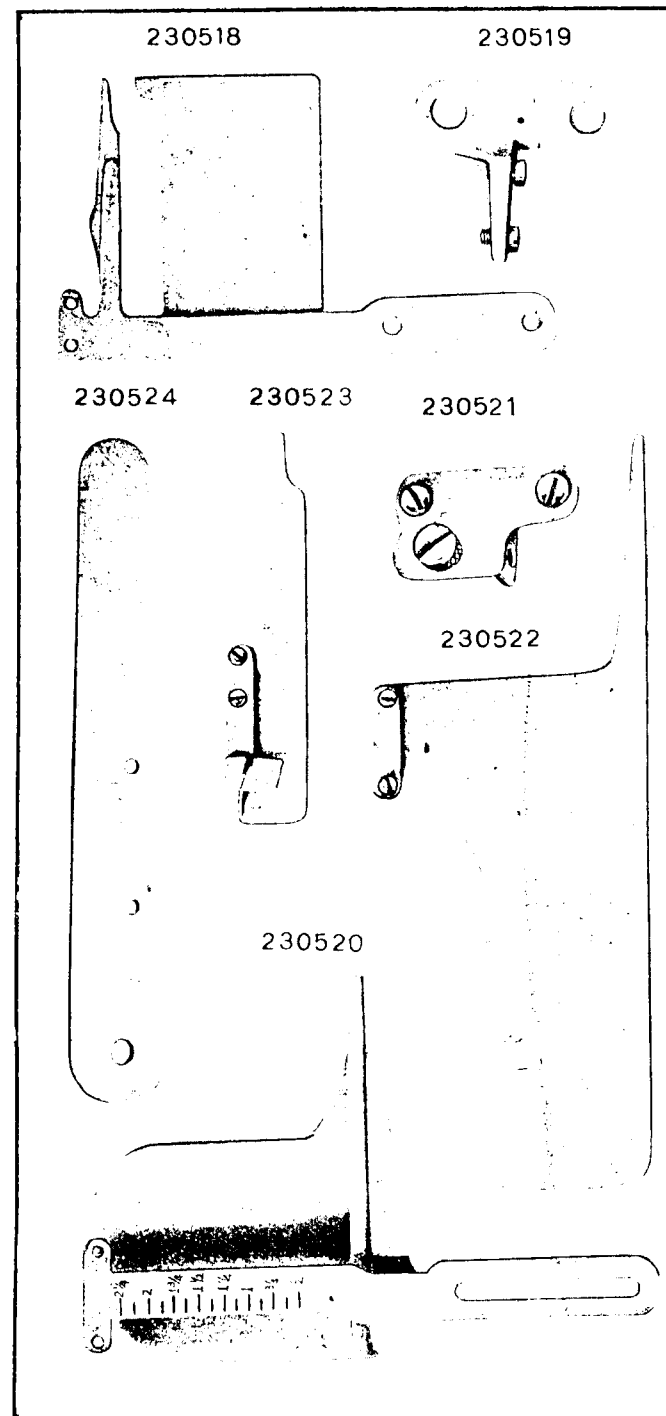


PLATE 14607-ONE-HALF SIZE

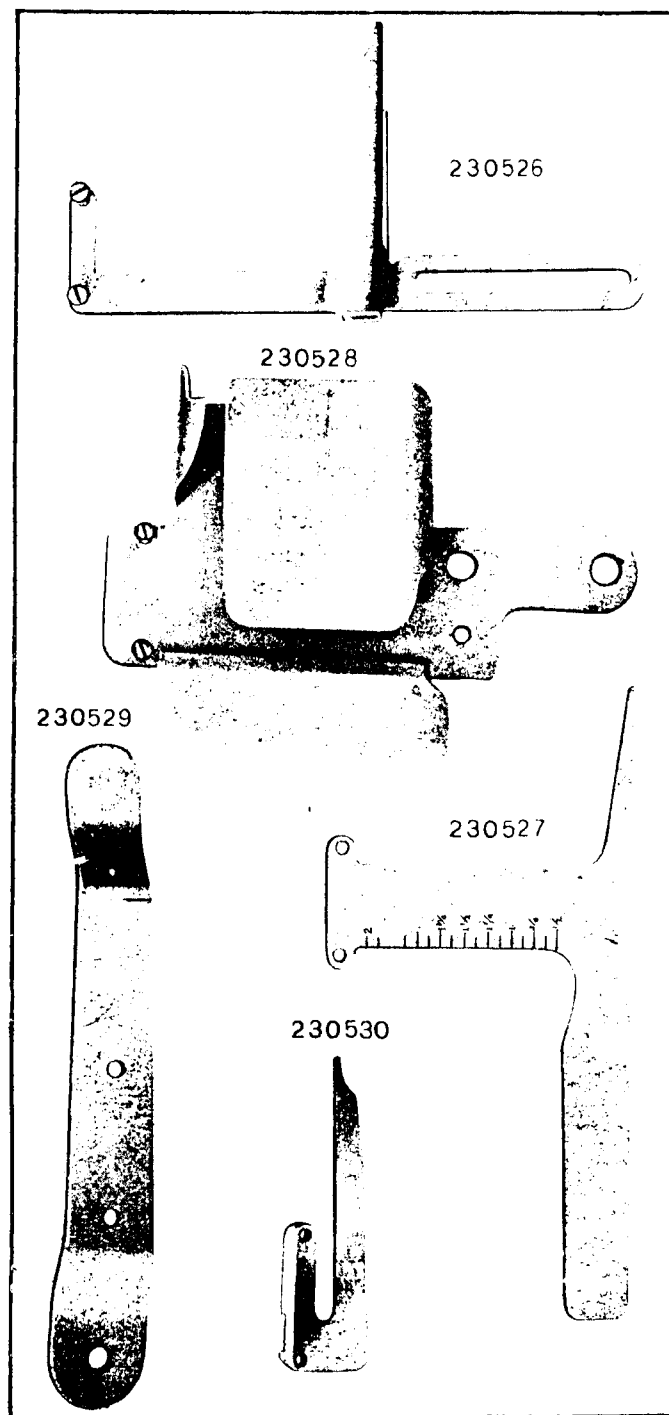


PLATE 14608-ONE-HALF SIZE

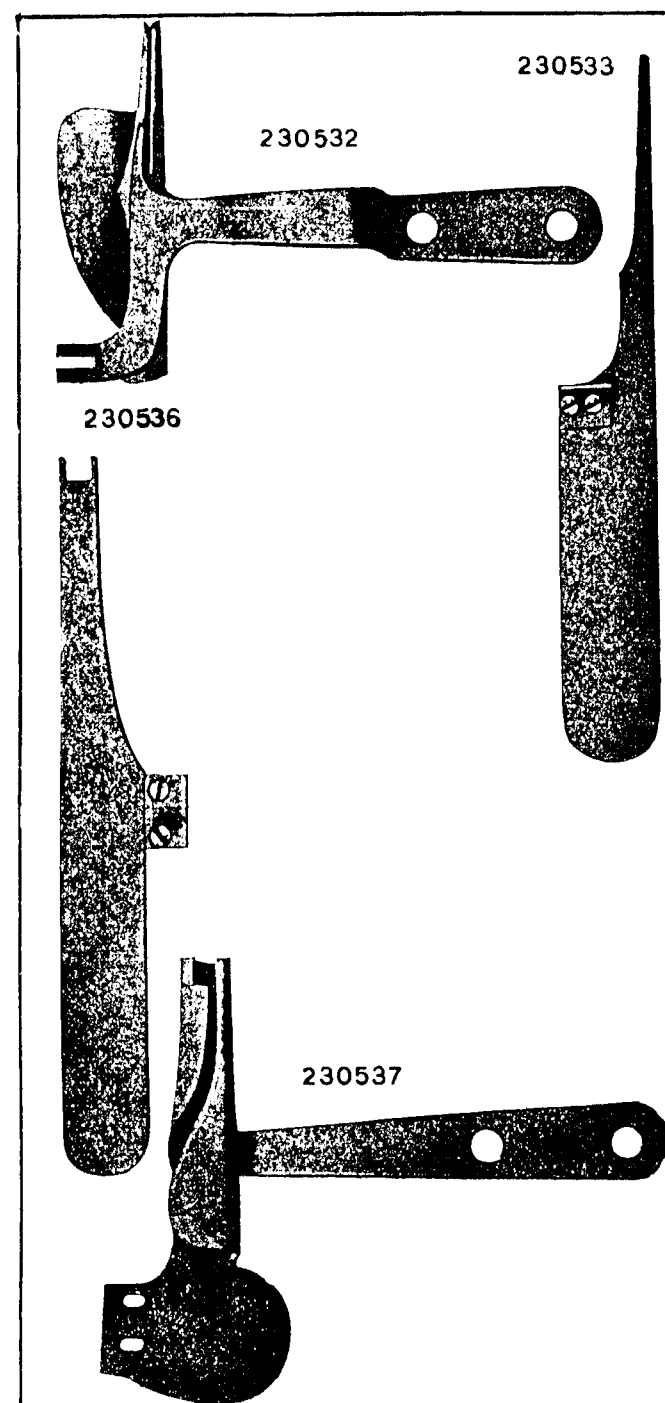


PLATE 14609-ONE-FOURTH SIZE

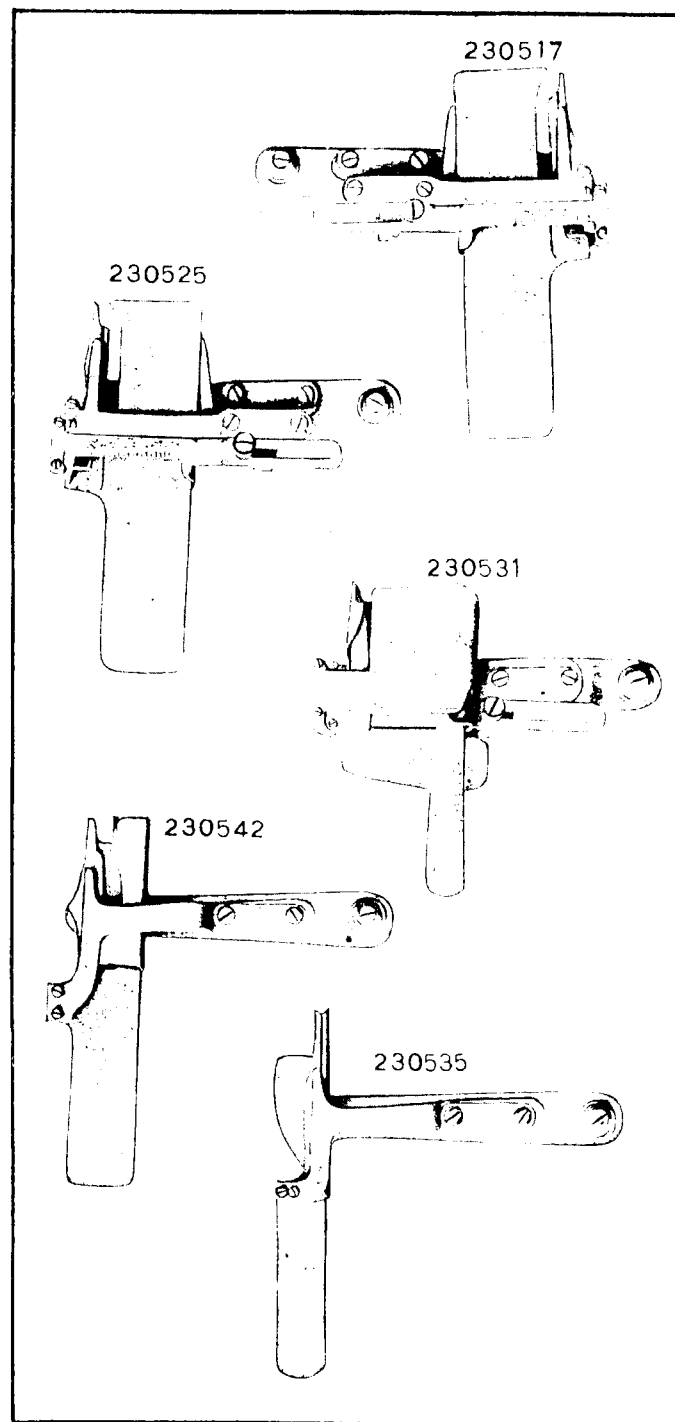


PLATE 13410- FULL SIZE

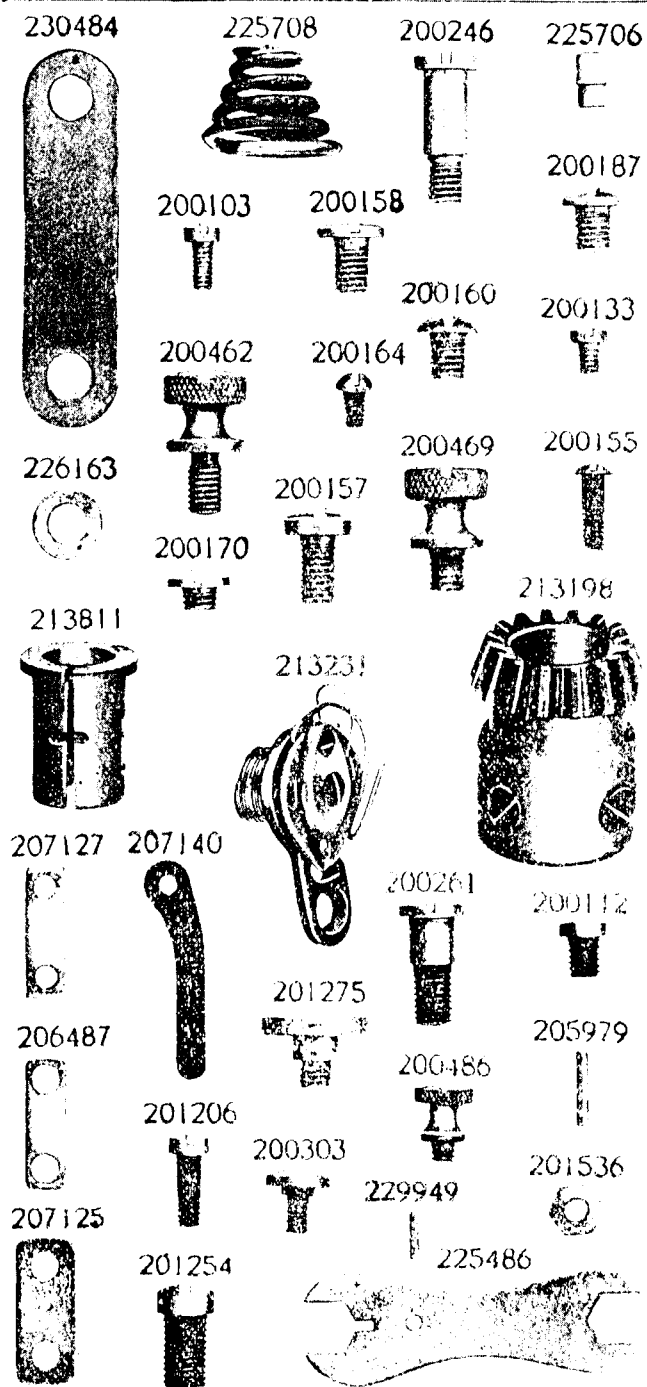


PLATE 13429-FULL SIZE

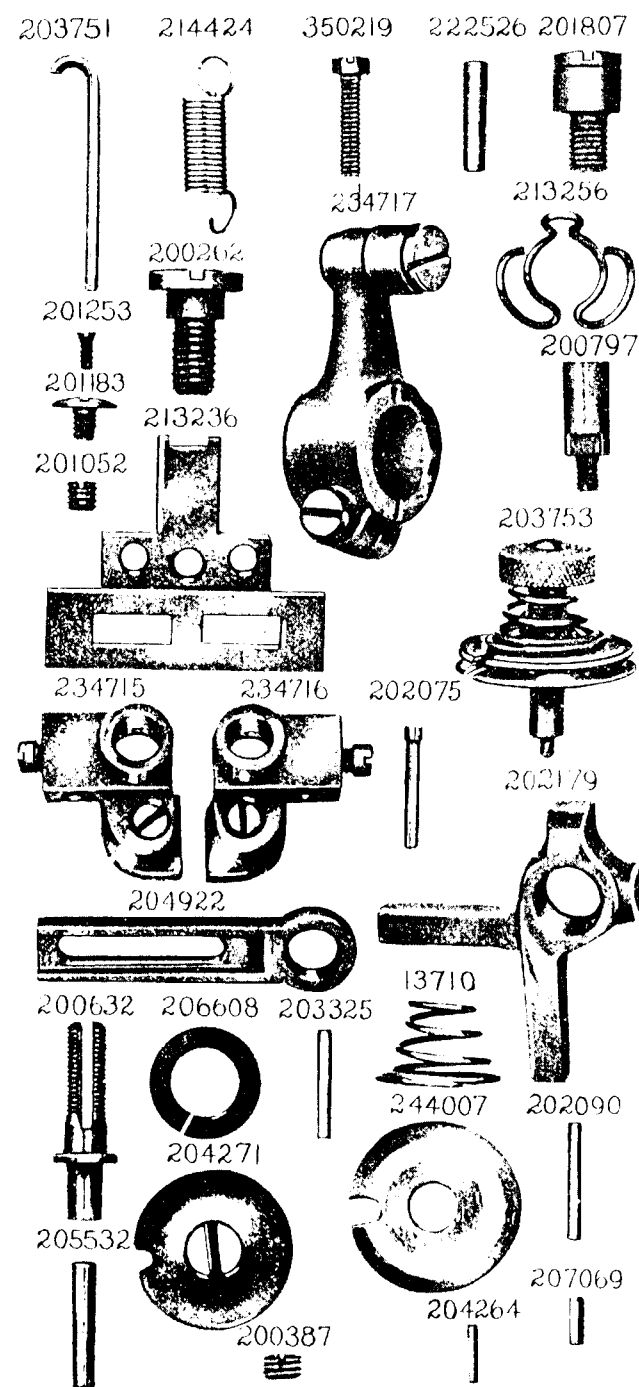


PLATE 13406—FULL SIZE

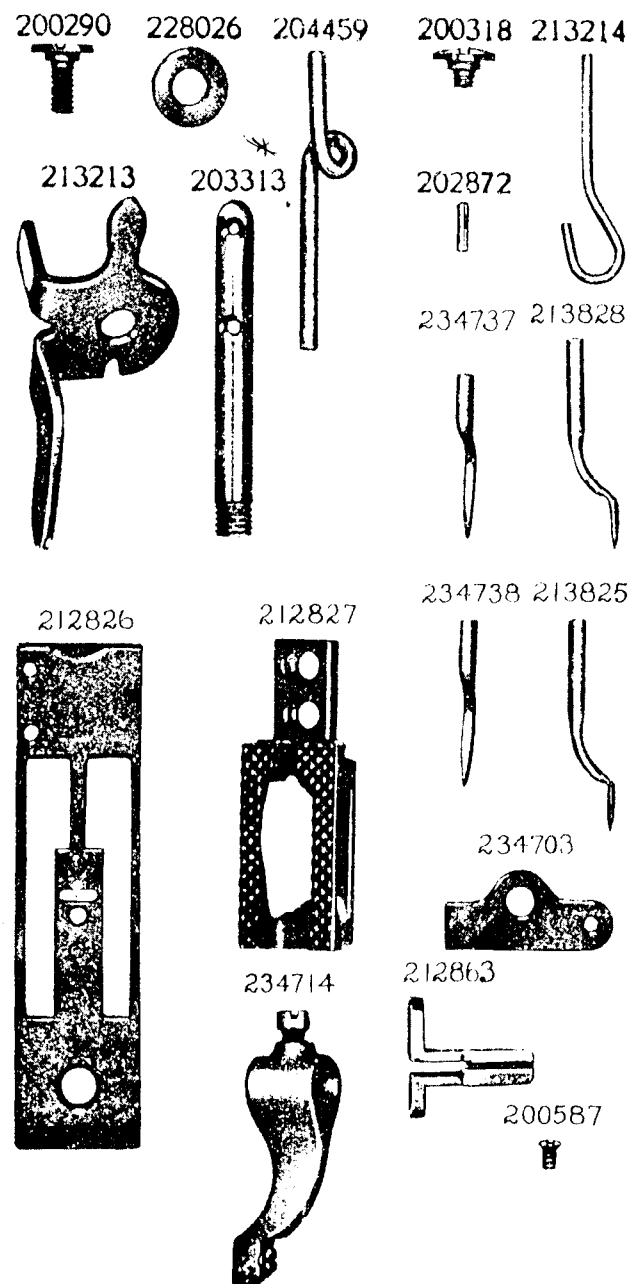


PLATE 13407—FULL SIZE

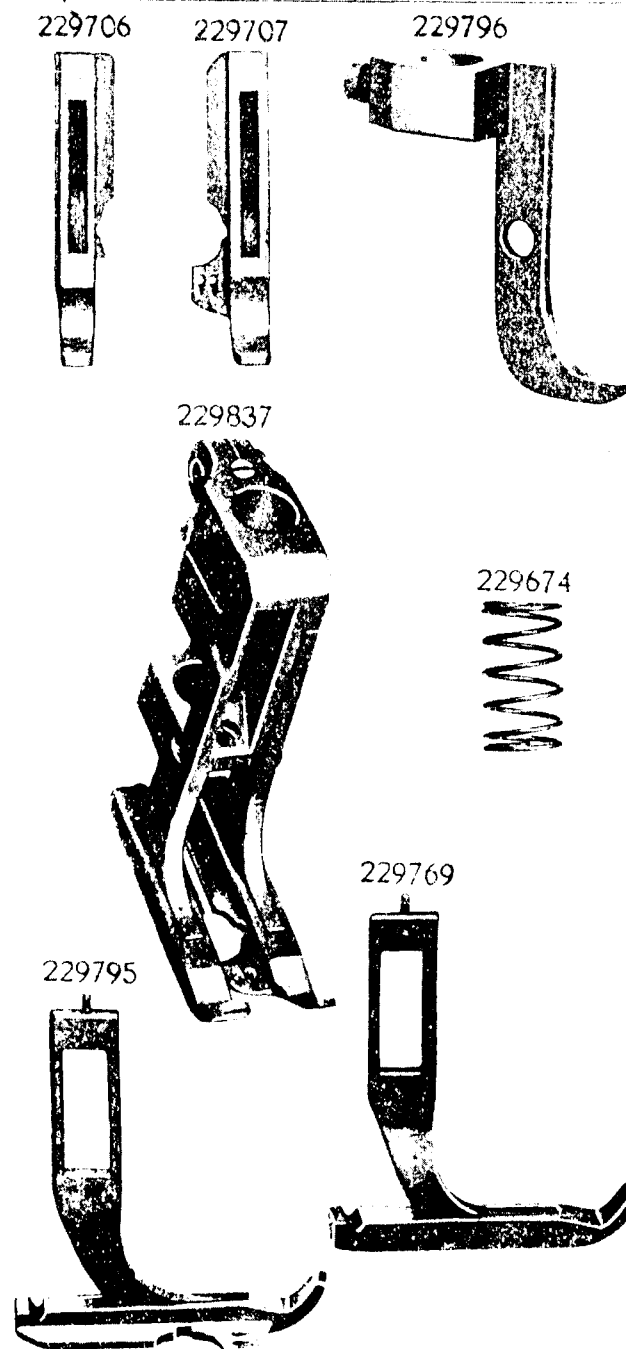


PLATE 13408--FULL SIZE

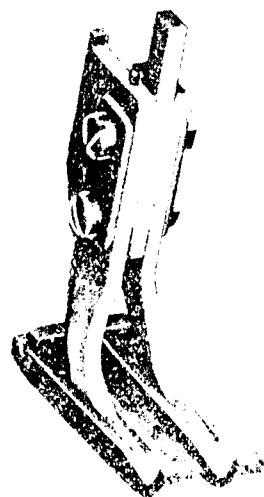
229725



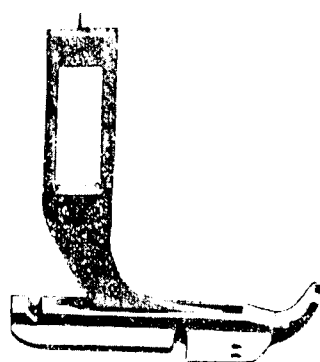
229726



229727



229764



229763

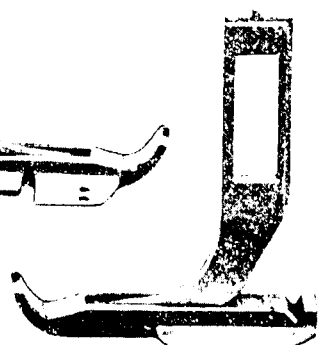
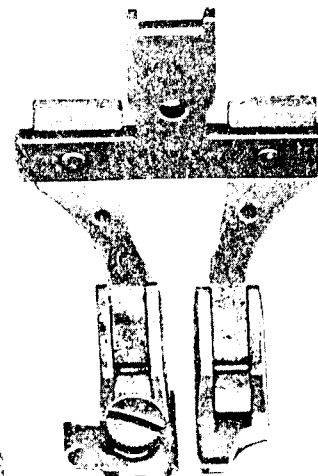


PLATE 13409--FULL SIZE

229731



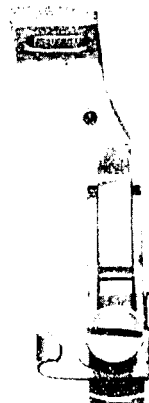
229733



229732



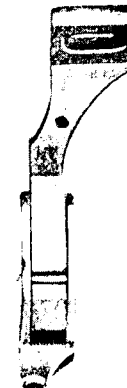
229791



213648



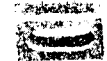
229792



229739



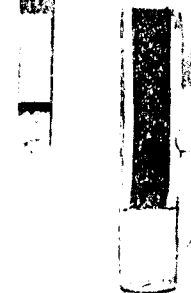
207137



207136



229738



229737

