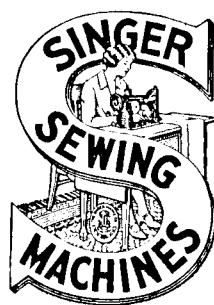


**SINGER**  
**52W12,W13**

# LIST OF PARTS



## MACHINES Nos. 52w12 and 52w13

THE SINGER MANUFACTURING COMPANY

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## Instructions for Ordering

In ordering from this list, use **ONLY** the **PART** number in the **FIRST** column.

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

Every combination of parts sent out has its specific number which, although not stamped on Parts (except in above cases) must be used when ordering the combination.

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

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

- A. Hardened, Polished and Plated.
- B. Polished and Plated.
- C. Hardened only.
- D. Polished only.
- E. Soft, not polished.
- F. Hardened and Polished.
- H. Blued.

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

In this series

200001 to 201500 are Screw Numbers.

201501 to 201800 are Nut Numbers.

201801 to 202000 are Roller Numbers.

202001 and upward are numbers of Machine Parts.

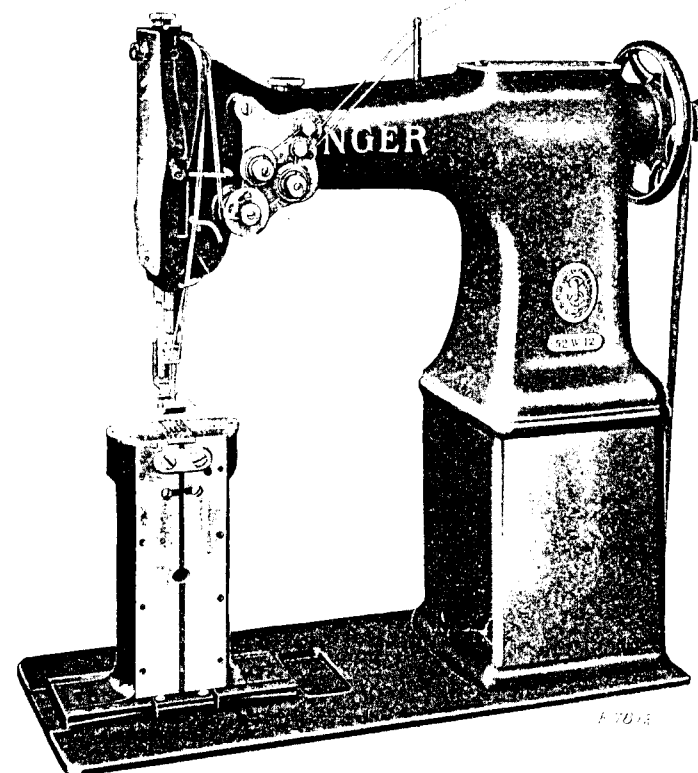
The figures in the second column refer only to the plate in which the illustration of the part is shown and are **NOT TO BE USED** in ordering.

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

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

## LIST OF PARTS COMPLETE

FOR



## MACHINE No. 52w12

DROP FEED

For Shirts, Underwear, Wrappers, Corsets, Etc.

In gauges from  $\frac{1}{8}$  to  $\frac{1}{4}$  inch

| No.     | Plate | Name                                      |
|---------|-------|-------------------------------------------|
| *234001 | ---   | Arm with 200368u, 202135 and 234047 ..... |
| *234002 | ---   | Arm Base .....                            |
| 204235  | 13332 | " " Position Pin (2) .....                |
| 200010  | 10245 | " " Screw (3) .....                       |
| 202005  | 10245 | " " Washer (3) .....                      |
| 202247  | 13303 | " Cap .....                               |

| No.             | Plate | Name                                                                    |
|-----------------|-------|-------------------------------------------------------------------------|
| 200278d         | 13302 | Arm Cap Screw .....                                                     |
| 202248          | 13302 | " " " Washer .....                                                      |
| 10554           | 13332 | " Position Pin (2) .....                                                |
| 200010e         | 10245 | " Screw (3) .....                                                       |
| 202249          | 13347 | " Shaft with 200357e and 203100                                         |
| 202243          | 13303 | " " Bushing (back) with<br>202244 .....                                 |
| 202244          | —     | Arm Shaft Bushing (back) Oil<br>Packing (wick) .....                    |
| 200338c         | 13302 | Arm Shaft Bushing (back) Set<br>Screw .....                             |
| 207080          | 13347 | Arm Shaft Bushing (front) with<br>202244 .....                          |
| 202244          | —     | Arm Shaft Bushing (front) Oil<br>Packing (wick) .....                   |
| 200502b         | 10246 | Arm Shaft Bushing (front) Oil<br>Packing Thumb Screw .....              |
| 200338c         | 13302 | Arm Shaft Bushing (front) Set<br>Screw .....                            |
| 234003          | 13301 | Arm Shaft Connection Belt .....                                         |
| 202635          | 13303 | " " " " Pulley<br>with 200327c, 200602e and two<br>202253 .....         |
| 200602e         | 13302 | Arm Shaft Connection Belt Pulley<br>Position Screw .....                |
| 200327c         | 13302 | Arm Shaft Connection Belt Pulley<br>Set Screw .....                     |
| 202253          | 13302 | Arm Shaft Connection Belt Pulley<br>Spring Flange .....                 |
| 203100          | —     | Arm Shaft Oil Packing (wick) ..                                         |
| 200357e         | 13302 | " " " " Stop Screw                                                      |
| 202255          | 13301 | Balance Wheel (belt groove 2 1/2 in.<br>diam.) with 200328c and 200335c |
| 200328c         | 13302 | Balance Wheel Position Screw ..                                         |
| 200335c         | 13302 | " " Set Screw .....                                                     |
| *234004         | —     | Bed .....                                                               |
| 202258          | 12345 | " Hinge Connection (2) .....                                            |
| 200570e         | 10245 | " " " Screw (4) ....                                                    |
| 233939 (203208) | 13313 | Bobbin .....                                                            |
| 234080          | 13313 | " Case Base with 202056, 203211<br>to 203213 and 203216 .....           |
| 203211          | 13313 | Bobbin Case Base Latch .....                                            |
| *202056         | —     | " " " " Pin .....                                                       |
| 203212          | 13313 | " " " " Plunger ..                                                      |
| 203213          | 13313 | " " " " Spring ..                                                       |
| 234081          | 13313 | " " Cap with 200594c,<br>200984c and 203214 .....                       |

| No.     | Plate | Name                                                                                     |
|---------|-------|------------------------------------------------------------------------------------------|
| 234079  | 13302 | Bobbin Case Lever .....                                                                  |
| 234065  | 13302 | " " " Driving Block                                                                      |
| 200076d | 13302 | " " " " " "                                                                              |
|         |       | Screw .....                                                                              |
| 201272c | 13346 | Bobbin Case Lever Hinge Screw ..                                                         |
| 203214  | 13302 | " " Tension Spring .....                                                                 |
| 200984c | 13302 | " " " " Regulat-<br>ing Screw .....                                                      |
| 200594c | 13302 | Bobbin Case Tension Spring Screw                                                         |
| 203216  | —     | " " Washer (cloth) .....                                                                 |
| 234082  | —     | Bobbin Case complete, Nos. 234080<br>and 234081 .....                                    |
| 202274  | 13303 | Face Plate .....                                                                         |
| 202135  | 10245 | " " Position Pin .....                                                                   |
| 200462b | 10245 | " " Thumb Screw .....                                                                    |
| 234010  | 13303 | Feed Bar .....                                                                           |
| 200641c | 10246 | " " Hinge Screw (driving) ..                                                             |
| 201518e | 10245 | " " " " Nut .....                                                                        |
| 202276  | 10245 | " " Slide Block .....                                                                    |
| 234084  | —     | " " " " Crank with<br>200038c .....                                                      |
| 234011  | 13302 | Feed Bar Slide Block Crank 234084<br>with 200205e, 201518e and 202276                    |
| 200038c | 10245 | Feed Bar Slide Block Crank Pinch<br>Screw .....                                          |
| 200205e | 10245 | Feed Bar Slide Block Hinge Screw                                                         |
| 201518e | 10245 | " " " " " " "                                                                            |
|         |       | Nut .....                                                                                |
| 234052  | 13312 | Feed Dog, for 234106 .....                                                               |
| 212692  | 13320 | " " " 234117 .....                                                                       |
| 212724  | 13318 | " " " 234112 .....                                                                       |
| 212731  | 13319 | " " " 234113 .....                                                                       |
| 212734  | 13319 | " " " 234114 .....                                                                       |
| 212737  | 13319 | " " " 234115 .....                                                                       |
| 234012  | 13303 | " " Lever with 200098e ....                                                              |
| 200263d | 13302 | " " " Hinge Screw .....                                                                  |
| 201528d | 13302 | " " " " " Nut ..                                                                         |
| 234066  | 13306 | " " " Post .....                                                                         |
| 234067  | —     | " " " " 234066 with<br>200265e, 201525e, 203610, 203624,<br>234012 and two 200098e ..... |
| 200024c | 13304 | Feed Dog Lever Post Screw (4) ...                                                        |
| 203637  | 11269 | " " " " " Washer<br>(4) .....                                                            |
| 203624  | 11269 | Feed Dog Lever Retainer Washer                                                           |
| 200098e | 13304 | " " " " " "                                                                              |
|         |       | Screw .....                                                                              |
| 203610  | 13304 | Feed Dog Lever Slide Block .....                                                         |
| 200265e | 13304 | " " " " " Hinge<br>Screw .....                                                           |

| No.     | Plate | Name                                                                                             |
|---------|-------|--------------------------------------------------------------------------------------------------|
| 201525E | 10245 | Feed Dog Lever Slide Block Hinge Screw Nut .....                                                 |
| 200098E | 13304 | Feed Dog Screw .....                                                                             |
| 234015  | 13301 | " Driving Connection with 200049E and 202277 .....                                               |
| 202298  | 10245 | Feed Driving Connection Crank with 200038C .....                                                 |
| 200038C | 10245 | Feed Driving Connection Crank Pinch Screw .....                                                  |
| 200545C | 10245 | Feed Driving Connection Hinge Screw .....                                                        |
| 201518E | 10245 | Feed Driving Connection Hinge Screw Nut .....                                                    |
| 202277  | —     | Feed Driving Connection Oil Packing (wick) .....                                                 |
| 200049E | 13304 | Feed Driving Connection Pinch Screw .....                                                        |
| 202300  | 10246 | Feed Driving Eccentric Regulating Bracket .....                                                  |
| 203098  | 13306 | Feed Driving Eccentric Regulating Bracket 202300 with 202635, two each 201014C and 201525E ..... |
| 201014C | 10245 | Feed Driving Eccentric Regulating Bracket Hinge Screw .....                                      |
| 201525E | 10245 | Feed Driving Eccentric Regulating Bracket Hinge Screw Nut .....                                  |
| 202301  | 10246 | Feed Driving Eccentric Regulating Bracket Plunger .....                                          |
| 202595  | 10246 | Feed Driving Eccentric Regulating Bracket Plunger Spring .....                                   |
| 200607C | 10246 | Feed Driving Eccentric Regulating Bracket Plunger Spring Stop Screw .....                        |
| 201014C | 10245 | Feed Driving Eccentric Regulating Bracket Stop Screw .....                                       |
| 201525E | 10245 | Feed Driving Eccentric Regulating Bracket Stop Screw Nut .....                                   |
| 200429C | 10246 | Feed Driving Eccentric Regulating Screw .....                                                    |
| 200383C | 10246 | Feed Driving Eccentric Regulating Screw Check Screw .....                                        |
| 202303  | 13301 | Feed Driving Rock Shaft .....                                                                    |
| 234016  | —     | " " " " 202303 with 200641C, 201518E and 234010 .....                                            |
| 202305  | 10245 | Feed Driving Rock Shaft Center (2) .....                                                         |
| 200043C | 10246 | " " " " " Set Screw (2) .....                                                                    |
| 234017  | 13301 | Feed Lifting Connection with 200049E and 202277 .....                                            |

| No.               | Plate | Name                                                             |
|-------------------|-------|------------------------------------------------------------------|
| 202307            | 10246 | Feed Lifting Connection Eccentric with 200382C and 200437C ..... |
| 200437C           | 10246 | Feed Lifting Connection Eccentric Position Screw .....           |
| 200382C           | 13304 | Feed Lifting Connection Eccentric Set Screw .....                |
| 200545C           | 10245 | Feed Lifting Connection Hinge Screw .....                        |
| 201518E           | 10245 | Feed Lifting Connection Hinge Screw Nut .....                    |
| 202277            | —     | Feed Lifting Connection Oil Packing (wick) .....                 |
| 200049E           | 13304 | Feed Lifting Connection Pinch Screw .....                        |
| 234018            | 13301 | Feed Lifting Rock Shaft .....                                    |
| 202305            | 10245 | " " " " Center (2) .....                                         |
| 200043C           | 10246 | " " " " " Set Screw .....                                        |
| 202310            | 13306 | Feed Regulating Spindle with 202311, 202443 and 202619 .....     |
| *202311           | —     | Feed Regulating Spindle Head ...                                 |
| 202443            | 13304 | " " " " Pin .....                                                |
| 202619            | 13304 | " " " " " Position Pin .....                                     |
| 203061            | 13301 | Foot Lifter Lifting Lever .....                                  |
| 203084            | —     | " " " " 203061 with 200262H .....                                |
| 200262H           | 13304 | Foot Lifter Lifting Lever Hinge Screw .....                      |
| 234019            | 13301 | Foot Lifter Lifting Lever Rod with 202302 .....                  |
| 202302            | —     | Foot Lifter Lifting Lever Rod Cotter Pin .....                   |
| 203058            | 13304 | Foot Lifter Lifting Lever Rod Coupling with 200530C .....        |
| 200530C           | —     | Foot Lifter Lifting Lever Rod Coupling Set Screw .....           |
| 203059            | 13304 | Foot Lifter Lifting Lever Rod Spring .....                       |
| 203060            | 13304 | Foot Lifter Lifting Lever Rod Spring Hook .....                  |
| *234020           | —     | Hook (sewing) .....                                              |
| 234021            | 13304 | " 234020 with 203513 and two 201253F .....                       |
| <del>234022</del> | —     | Hook and Bobbin Case complete, Nos. 234021 and 234082 .....      |
| 234088            | 13347 | Hook Bevel Gear Socket, 14 teeth .....                           |
| 234024            | 13304 | " " " " Friction Washer .....                                    |

| No.     | Plate | Name                                                                                                                    |
|---------|-------|-------------------------------------------------------------------------------------------------------------------------|
| 200555u | 13304 | Hook Bevel Gear Socket Screw ..                                                                                         |
| 241551  | 13346 | " " Pinion, 28 teeth, with<br>two 200378c (2) .....                                                                     |
| 200378c | 13304 | Hook Bevel Pinion Set Screw ....                                                                                        |
| 234026  | 13301 | " Driving Shaft .....                                                                                                   |
| 202321  | 10245 | " " " Bushing (3) ...                                                                                                   |
| 200346c | 10245 | " " " " Set Screw<br>(3) .....                                                                                          |
| 234027  | 13304 | Hook Driving Shaft Collar with two<br>200378c (2) .....                                                                 |
| 200378c | 13304 | Hook Driving Shaft Collar Set<br>Screw .....                                                                            |
| 234028  | 13306 | Hook Driving Shaft Connection<br>Belt Pulley with 202253 and two<br>201254c .....                                       |
| 201254c | 13304 | Hook Driving Shaft Connection<br>Belt Pulley Set Screw .....                                                            |
| 202253  | 13302 | Hook Driving Shaft Connection<br>Belt Pulley Spring Flange .....                                                        |
| 224392  | —     | Hook Driving Shaft Oil Packing<br>(wick) (3) .....                                                                      |
| 203513  | 13304 | Hook Gib .....                                                                                                          |
| 201253f | 13304 | " " Screw .....                                                                                                         |
| 234069  | 13306 | " Post (inside or outside) ....                                                                                         |
| 234089  | —     | " " 234069 with 200555u,<br>201272c, 202299, 234022, 234024,<br>234065, 234078, 234079, 234088 and<br>two 200076b ..... |
| 234090  | —     | Hook Post 234089 with 203630,<br>221215, 234073 and eight 200583u                                                       |
| 234091  | —     | Hook Post 234089 with 221215,<br>234074, 234083 and eight 200583u                                                       |
| 200159f | 13304 | Hook Post Clamping Screw .....                                                                                          |
| 203630  | 13305 | " " Cover Plate (back) (in-<br>side) .....                                                                              |
| 234083  | 13316 | Hook Post Cover Plate (back) (out-<br>side) .....                                                                       |
| 234073  | 13305 | Hook Post Cover Plate (front) (in-<br>side) .....                                                                       |
| 234074  | 13305 | Hook Post Cover Plate (front) (out-<br>side) .....                                                                      |
| 200583u | 13304 | Hook Post Cover Plate Screw ...                                                                                         |
| 202299  | —     | " " Oil Packing (wick) ...                                                                                              |
| 200008c | 11269 | " " Screw (4) .....                                                                                                     |
| 203637  | 11269 | " " Washer (4) .....                                                                                                    |
| 221215  | 13304 | " " Slide .....                                                                                                         |
| 234078  | —     | Hook Washer .....                                                                                                       |

| No.     | Plate | Name                                                                                                                                   |
|---------|-------|----------------------------------------------------------------------------------------------------------------------------------------|
| 234092  | —     | Hook Post Combination (inside<br>and outside) complete, Nos.<br>234067, 234090, 234091 and two<br>200159f .....                        |
| 234039  | 13308 | Needle Bar and Holder, in gauges<br>from $\frac{3}{16}$ to $\frac{3}{8}$ in. in steps of $\frac{1}{32}$ in.,<br>with two 200141f ..... |
| 234040  | —     | Needle Bar and Holder, in gauges<br>from $\frac{3}{16}$ to 1 in. in steps of $\frac{1}{32}$ in.,<br>with two 200141f .....             |
| 202550  | 13308 | Needle Bar Bushing .....                                                                                                               |
| 200352c | 13308 | " " " Set Screw .....                                                                                                                  |
| 202552  | 13308 | " " Connecting Link .....                                                                                                              |
| 236073  | 13305 | " " " " Oil<br>Guard .....                                                                                                             |
| 200161b | 12319 | Needle Bar Connecting Link Oil<br>Guard Screw .....                                                                                    |
| 202333  | 13308 | Needle Bar Connecting Link Stud<br>with 202254 .....                                                                                   |
| 202254  | —     | Needle Bar Connecting Link Stud<br>Oil Packing (wick) .....                                                                            |
| 200374c | 13346 | Needle Bar Connecting Link Stud<br>Set Screw .....                                                                                     |
| 200383c | 10246 | Needle Bar Connecting Link Stud<br>Set Screw .....                                                                                     |
| *206891 | —     | Needle Bar Connecting Stud .....                                                                                                       |
| 202329  | 13308 | " " " " 206891<br>with 200086c and 202330 .....                                                                                        |
| 202330  | —     | Needle Bar Connecting Stud Oil<br>Packing (wick) .....                                                                                 |
| 200086c | 13308 | Needle Bar Connecting Stud Pinch<br>Screw .....                                                                                        |
| 202551  | 13305 | Needle Bar Crank with 200335c,<br>200374c, 200383c, 200428c and<br>202333 .....                                                        |
| 234042  | —     | Needle Bar Crank 202551 with<br>202329, 202399, 202400, 202552 and<br>234045 .....                                                     |
| 203172  | 13308 | Needle Bar Crank Friction Washer                                                                                                       |
| 200428c | 13308 | " " " Position Screw ..                                                                                                                |
| 200335c | 13302 | " " " Set Screw .....                                                                                                                  |
| 200141f | 13308 | " Set Screw .....                                                                                                                      |
| 244033  | —     | Presser Bar (hollow) .....                                                                                                             |
| 202335  | 13305 | " " 244033 with 200074f ..                                                                                                             |
| 241535  | 13346 | " " Bushing .....                                                                                                                      |
| 200352c | 13308 | " " " Set Screw .....                                                                                                                  |
| 202554  | 13346 | " " Lifter .....                                                                                                                       |
| 200653c | 13307 | " " " Hinge Screw ....                                                                                                                 |
| 244006  | 13346 | " " Lifting Releasing Lev-<br>er Bracket .....                                                                                         |

| No.     | Plate | Name                                                                                                                                                                    |
|---------|-------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 200260D | 13307 | Presser Bar Lifting Releasing Lever Bracket Guide Screw .....                                                                                                           |
| 206608  | 13346 | Presser Bar Lifting Releasing Lever Bracket Spring .....                                                                                                                |
| 202337  | 13307 | Presser Bar Position Guide .....                                                                                                                                        |
| 202338  | 13307 | " " " " Lever with 200086F .....                                                                                                                                        |
| 200086F | 13308 | Presser Bar Position Guide Lever Pinch Screw .....                                                                                                                      |
| 200352C | 13308 | Presser Bar Position Guide Set Screw .....                                                                                                                              |
| 202378  | 13307 | Presser Bar Spring .....                                                                                                                                                |
| 234044  | 13307 | " " " Stop Rod .....                                                                                                                                                    |
| 200492B | 13307 | " " Thumb Screw (pressure regulating) .....                                                                                                                             |
| 200475B | 13307 | Presser Bar Thumb Screw Thumb Set Screw .....                                                                                                                           |
| 202355  | 13307 | Presser Bar Thumb Screw Thumb Set Screw Packing (brass) ....                                                                                                            |
| 230795  | 13307 | Presser Foot Hinge Pin .....                                                                                                                                            |
| 223910  | —     | " " Plate, for 223911 ....                                                                                                                                              |
| 229454  | —     | " " " " 229455 ....                                                                                                                                                     |
| 229456  | —     | " " " " 229457 ....                                                                                                                                                     |
| 229458  | —     | " " " " 229459 ....                                                                                                                                                     |
| 229460  | —     | " " " " 229461 ....                                                                                                                                                     |
| 229462  | —     | " " " " 229463 ....                                                                                                                                                     |
| 202923  | —     | " " Shank .....                                                                                                                                                         |
| 223911  | 11789 | Presser Foot (hinged) complete, 50 needle hole, in $\frac{3}{16}$ in. gauge, Nos. 202923, 223910 and 230795 .....                                                       |
| 229455  | 11789 | Presser Foot (hinged) complete, 46 needle hole, in gauges $\frac{1}{8}$ , $\frac{5}{16}$ and $\frac{3}{8}$ in., Nos. 202923, 229454 and 230795 .....                    |
| 229457  | 13314 | Presser Foot (hinged) complete, 46 needle hole, in gauges $\frac{1}{8}$ , $\frac{1}{4}$ , $\frac{5}{16}$ and $\frac{3}{8}$ in., Nos. 202923, 229456 and 230795 .....    |
| 229459  | 13314 | Presser Foot (hinged) complete, 46 needle hole, in gauges $\frac{1}{8}$ , $\frac{1}{4}$ , $\frac{5}{16}$ and $\frac{3}{8}$ in., Nos. 202923, 229458 and 230795 .....    |
| 229461  | 13314 | Presser Foot (hinged) complete, 46 needle hole, in gauges from $\frac{1}{8}$ to $\frac{3}{8}$ in., in steps of $\frac{1}{16}$ in., Nos. 202923, 229460 and 230795 ..... |
| 229463  | 13314 | Presser Foot (hinged) complete, 46 needle hole, in gauges $\frac{1}{8}$ , $\frac{1}{4}$ , $\frac{5}{16}$ and $\frac{3}{8}$ in., Nos. 202923, 229462 and 230795 .....    |

| No.     | Plate | Name                                                                                                                                                                                   |
|---------|-------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 200074F | 13307 | Presser Foot Screw .....                                                                                                                                                               |
| 234045  | 13307 | Take-up Lever .....                                                                                                                                                                    |
| 202399  | 13307 | " " Driving Stud with 202277 .....                                                                                                                                                     |
| 202277  | —     | Take-up Lever Driving Stud Oil Packing (wick) .....                                                                                                                                    |
| 202400  | 13307 | Take-up Lever Hinge Stud with 202423 .....                                                                                                                                             |
| 202423  | —     | Take-up Lever Hinge Stud Oil Packing (wick) .....                                                                                                                                      |
| 200383C | 10246 | Take-up Lever Hinge Stud Set Screw .....                                                                                                                                               |
| 202401  | —     | Take-up Lever Oiling Felt .....                                                                                                                                                        |
| 200132E | 13307 | " " " " Screw ..                                                                                                                                                                       |
| 234086  | 13307 | Tension Bracket with two each 200397H, 201224B and 236060 ....                                                                                                                         |
| 200159F | 13304 | Tension Bracket Screw .....                                                                                                                                                            |
| 234047  | 13309 | " " " Socket ....                                                                                                                                                                      |
| 200368H | 13309 | " " " " Set Screw .....                                                                                                                                                                |
| 236098  | 13346 | Tension Bracket Thread Guide (double) .....                                                                                                                                            |
| 200174H | 13346 | Tension Bracket Thread Guide Screw .....                                                                                                                                               |
| 234087  | —     | Tension Bracket complete, Nos. 200174H, 200978H, 201199F, 223703, 223706, 223707, 234086, 236098, two each 13710, 200309E, 204059, 204271, 223704, three 201572B and four 244007 ..... |
| 244007  | 13309 | Tension Disc .....                                                                                                                                                                     |
| 236060  | 13309 | " " Position Pin .....                                                                                                                                                                 |
| 223703  | 13309 | " Release Lever .....                                                                                                                                                                  |
| 234049  | 13309 | " " " Rod .....                                                                                                                                                                        |
| 200309E | 13309 | " " " Screw .....                                                                                                                                                                      |
| 223704  | 13309 | " " Plunger .....                                                                                                                                                                      |
| 204271  | 13309 | " " Washer .....                                                                                                                                                                       |
| 13710   | 13332 | " Spring .....                                                                                                                                                                         |
| 201224B | 13309 | " Stud .....                                                                                                                                                                           |
| 201572B | 10881 | " Thumb Nut .....                                                                                                                                                                      |
| 223706  | 13309 | Thread Controller Disc .....                                                                                                                                                           |
| 200978H | 13309 | " " " Screw ....                                                                                                                                                                       |
| 223707  | 13309 | " " Spring .....                                                                                                                                                                       |
| 242117  | 13309 | " " Stop .....                                                                                                                                                                         |
| 200132E | 13307 | " " " " Screw ..                                                                                                                                                                       |
| 201199F | 13309 | " " Stud with 204925 ..                                                                                                                                                                |
| 200061C | —     | " " " Set Screw ....                                                                                                                                                                   |
| 201572B | 10881 | " " " Thumb Nut ...                                                                                                                                                                    |

| No.     | Plate | Name                                                                                                                                                                          |
|---------|-------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 204925  | 13309 | Thread Controller Stud Washer ..                                                                                                                                              |
| 202414  | 13309 | " Guide .....                                                                                                                                                                 |
| 202415  | 13309 | " " .....                                                                                                                                                                     |
| 202417  | 13309 | " " .....                                                                                                                                                                     |
| 203313  | 13309 | " " .....                                                                                                                                                                     |
| 200355H | 12319 | " " Set Screw .....                                                                                                                                                           |
| 200397H | 13309 | " " " " .....                                                                                                                                                                 |
| 200582H | 13309 | " " Screw .....                                                                                                                                                               |
| 202091  | 13309 | " Retainer Sleeve .....                                                                                                                                                       |
| 202092  | 13309 | " " Spring .....                                                                                                                                                              |
| 204058  | 13309 | " " Stud .....                                                                                                                                                                |
| 200397H | 13309 | " " " Set Screw .....                                                                                                                                                         |
| 204059  | 13309 | Thread Retainer complete, Nos.<br>202091, 202092 and 204058 .....                                                                                                             |
| 234106  | 13312 | Throat Plate, 50 needle hole, for<br>needle sizes 14 and 15, in gauges<br>$\frac{3}{8}$ , $\frac{1}{2}$ and $\frac{5}{8}$ in., for 234052 ....                                |
| 234117  | 13320 | Throat Plate, 50 needle hole, for<br>needle sizes 14 and 15, in gauges<br>$\frac{1}{8}$ , $\frac{3}{8}$ and $\frac{1}{2}$ in., for 212692 ....                                |
| 234112  | 13318 | Throat Plate, 50 needle hole, for<br>needle sizes 14 and 15, in gauges<br>$\frac{3}{8}$ , $\frac{1}{2}$ and $\frac{11}{16}$ in., for 212724 ....                              |
| 234113  | 13319 | Throat Plate, 50 needle hole, for<br>needle sizes 14 and 15, in gauges<br>from $\frac{3}{8}$ to $\frac{11}{16}$ in., in steps of $\frac{1}{32}$<br>in., for 212731 .....      |
| 234114  | 13319 | Throat Plate, 50 needle hole, for<br>needle sizes 14 and 15, in gauges<br>$\frac{1}{8}$ , $\frac{11}{16}$ , $\frac{5}{8}$ , $\frac{3}{4}$ and $\frac{15}{16}$ in., for 212734 |
| 234115  | 13319 | Throat Plate, 50 needle hole, for<br>needle sizes 14 and 15, in gauges<br>$\frac{3}{8}$ and $\frac{1}{2}$ in., for 212737 .....                                               |
| 200577H | 10245 | Throat Plate Screw (2) .....                                                                                                                                                  |

## LIST OF PARTS COMPLETE

FOR

## MACHINE No. 52w13

DROP FEED

For Overall Work and Other Heavy Fabrics.

In gauges from  $\frac{1}{8}$  to  $\frac{1}{2}$  inch

| No.     | Plate | Name                                                            |
|---------|-------|-----------------------------------------------------------------|
| *234001 | ----- | Arm with 200368H, 202135 and<br>234047 .....                    |
| *234002 | ----- | Arm Base .....                                                  |
| 204235  | 13332 | " " Position Pin (2) .....                                      |
| 200010E | 10245 | " " Screw (3) .....                                             |
| 202005  | 10245 | " " " Washer (3) .....                                          |
| 202247  | 13303 | " Cap .....                                                     |
| 200278H | 13302 | " " Screw .....                                                 |
| 202248  | 13302 | " " " Washer .....                                              |
| 10554   | 13332 | " Position Pin (2) .....                                        |
| 200010E | 10245 | " Screw (3) .....                                               |
| 234146  | 13332 | " Shaft with 200357E and 203100                                 |
| 202243  | 13303 | " " Bushing (back) with<br>202244 .....                         |
| 202244  | ----- | Arm Shaft Bushing (back) Oil<br>Packing (wick) .....            |
| 200338C | 13302 | Arm Shaft Bushing (back) Set<br>Screw .....                     |
| 207080  | 13347 | Arm Shaft Bushing (front) with<br>202244 .....                  |
| 202244  | ----- | Arm Shaft Bushing (front) Oil<br>Packing (wick) .....           |
| 200502E | 10246 | Arm Shaft Bushing (front) Oil<br>Packing Thumb Screw .....      |
| 200338C | 13302 | Arm Shaft Bushing (front) Set<br>Screw .....                    |
| 234003  | 13301 | Arm Shaft Connection Belt .....                                 |
| 202635  | 13303 | " " " " Pulley<br>with 200327C, 200602E and two<br>202253 ..... |
| 200602E | 13302 | Arm Shaft Connection Belt Pulley<br>Position Screw .....        |
| 200327C | 13302 | Arm Shaft Connection Belt Pulley<br>Set Screw .....             |

| No.                         | Plate | Name                                                                    |
|-----------------------------|-------|-------------------------------------------------------------------------|
| 202253                      | 13302 | Arm Shaft Connection Belt Pulley<br>Spring Flange .....                 |
| 203100                      | ----- | Arm Shaft Oil Packing (wick) ....                                       |
| 200357e                     | 13302 | " " " " Stop Screw                                                      |
| 234147                      | 13301 | Balance Wheel (belt groove 2 1/4 in.<br>diam.) with 200328e and 200335e |
| 200328e                     | 13302 | Balance Wheel Position Screw ....                                       |
| 200335e                     | 13302 | " " Set Screw .....                                                     |
| *234004                     | ----- | Bed .....                                                               |
| 202258                      | 12345 | " Hinge Connection (2) .....                                            |
| 200570e                     | 10245 | " " " Screw (4) ...                                                     |
| 203208                      | 13313 | Bobbin .....                                                            |
| 234080                      | 13313 | " Case Base with 202056,<br>203211 to 203213 and 203216 ....            |
| 203211                      | 13313 | Bobbin Case Base Latch .....                                            |
| *202056                     | ----- | " " " " Pin .....                                                       |
| 203212                      | 13313 | " " " " Plunger ..                                                      |
| 203213                      | 13313 | " " " " Spring ...                                                      |
| <del>234081</del><br>24187e | 13313 | " " Cap with 200594e,<br>200984e and 203214 .....                       |
| 234079                      | 13302 | Bobbin Case Lever .....                                                 |
| 234065                      | 13302 | " " " Driving Block                                                     |
| 200076b                     | 13302 | " " " " " "                                                             |
|                             |       | Screw .....                                                             |
| 201272e                     | 13346 | Bobbin Case Lever Hinge Screw ..                                        |
| 203214                      | 13302 | " " Tension Spring .....                                                |
| 200984e                     | 13302 | " " " " Regu-<br>lating Screw .....                                     |
| 200594e                     | 13302 | Bobbin Case Tension Spring Screw                                        |
| 203216                      | ----- | " " Washer (cloth) .....                                                |
| 234082                      | ----- | Bobbin Case complete, Nos. 234080<br>and 234081 .....                   |
| 202274                      | 13303 | Face Plate .....                                                        |
| 202135                      | 10245 | " " Position Pin .....                                                  |
| 200162b                     | 10245 | " " Thumb Screw .....                                                   |
| 234010                      | 13303 | Feed Bar .....                                                          |
| 200641e                     | 10246 | " " Hinge Screw (driving)...                                            |
| 201518e                     | 10245 | " " " " Nut .....                                                       |
| 202276                      | 10245 | " " Slide Block .....                                                   |
| 234084                      | ----- | " " " " Crank with<br>200038e .....                                     |
| 234011                      | 13302 | Feed Bar Slide Block Crank 234084<br>with 200205e, 201518e and 202276   |
| 200038e                     | 10245 | Feed Bar Slide Block Crank Pinch<br>Screw .....                         |
| 200205e                     | 10245 | Feed Bar Slide Block Hinge Screw                                        |
| 201518e                     | 10245 | " " " " " " "                                                           |
|                             |       | Nut .....                                                               |

| No.     | Plate | Name                                                                                                   |
|---------|-------|--------------------------------------------------------------------------------------------------------|
| 212782  | 13341 | Feed Dog, for 234153 .....                                                                             |
| 234130  | 13321 | " " " 234111 .....                                                                                     |
| 212731  | 13319 | " " " 234113 .....                                                                                     |
| 212734  | 13319 | " " " 234154 .....                                                                                     |
| 212737  | 13319 | " " " 234115 .....                                                                                     |
| 234012  | 13303 | " " Lever with 200098e ....                                                                            |
| 200263b | 13302 | " " Hinge Screw .....                                                                                  |
| 201528b | 13302 | " " " " " Nut ..                                                                                       |
| 234066  | 13306 | " " " Post .....                                                                                       |
| 234067  | ----- | " " " " 234066 with<br>200265e, 201525e, 203610, 203624,<br>234012 and two 200098e .....               |
| 200024e | 13304 | Feed Dog Lever Post Screw (4) ..                                                                       |
| 203637  | 11269 | " " " " " Washer<br>(4) .....                                                                          |
| 203624  | 11269 | Feed Dog Lever Retainer Washer                                                                         |
| 200098e | 13304 | " " " " " "                                                                                            |
|         |       | Screw .....                                                                                            |
| 203610  | 13304 | Feed Dog Lever Slide Block .....                                                                       |
| 200265e | 13304 | " " " " " Hinge<br>Screw .....                                                                         |
| 201525e | 10249 | Feed Dog Lever Slide Block Hinge<br>Screw Nut .....                                                    |
| 200098e | 13304 | Feed Dog Screw .....                                                                                   |
| 234015  | 13301 | " Driving Connection with<br>200049e and 202277 .....                                                  |
| 202298  | 10245 | Feed Driving Connection Crank<br>with 200038e .....                                                    |
| 200038e | 10245 | Feed Driving Connection Crank<br>Pinch Screw .....                                                     |
| 200545e | 10245 | Feed Driving Connection Hinge<br>Screw .....                                                           |
| 201518e | 10245 | Feed Driving Connection Hinge<br>Screw Nut .....                                                       |
| 202277  | ----- | Feed Driving Connection Oil Pack-<br>ing (wick) .....                                                  |
| 200049e | 13304 | Feed Driving Connection Pinch<br>Screw .....                                                           |
| 202300  | 10246 | Feed Driving Eccentric Regulating<br>Bracket .....                                                     |
| 203098  | 13306 | Feed Driving Eccentric Regulating<br>Bracket 202300 with 202635, two<br>each 201014e and 201525e ..... |
| 201014e | 10245 | Feed Driving Eccentric Regulating<br>Bracket Hinge Screw .....                                         |
| 201525e | 10245 | Feed Driving Eccentric Regulating<br>Bracket Hinge Screw Nut .....                                     |
| 202301  | 10246 | Feed Driving Eccentric Regulating<br>Bracket Plunger .....                                             |

| No.     | Plate | Name                                                                      |
|---------|-------|---------------------------------------------------------------------------|
| 202595  | 10246 | Feed Driving Eccentric Regulating Bracket Plunger Spring .....            |
| 200607c | 10246 | Feed Driving Eccentric Regulating Bracket Plunger Spring Stop Screw ..... |
| 201014c | 10245 | Feed Driving Eccentric Regulating Bracket Stop Screw .....                |
| 201525E | 10245 | Feed Driving Eccentric Regulating Bracket Stop Screw Nut .....            |
| 200429c | 10246 | Feed Driving Eccentric Regulating Screw .....                             |
| 200383c | 10246 | Feed Driving Eccentric Regulating Screw Check Screw .....                 |
| 202303  | 13301 | Feed Driving Rock Shaft .....                                             |
| 234016  | —     | " " " " 202303 with 200641c, 201518E and 234010                           |
| 202305  | 10245 | Feed Driving Rock Shaft Center (2)                                        |
| 200043c | 10246 | " " " " " Set Screw (2) .....                                             |
| 234017  | 13301 | Feed Lifting Connection with 200049E and 202277 .....                     |
| 202307  | 10246 | Feed Lifting Connection Eccentric with 200382c and 200437c .....          |
| 200437c | 10246 | Feed Lifting Connection Eccentric Position Screw .....                    |
| 200382c | 13304 | Feed Lifting Connection Eccentric Set Screw .....                         |
| 200545c | 10245 | Feed Lifting Connection Hinge Screw .....                                 |
| 201518E | 10245 | Feed Lifting Connection Hinge Screw Nut .....                             |
| 202277  | —     | Feed Lifting Connection Oil Packing (wick) .....                          |
| 200049E | 13304 | Feed Lifting Connection Pinch Screw .....                                 |
| 234018  | 13301 | Feed Lifting Rock Shaft .....                                             |
| 202305  | 10245 | " " " " Center (2)                                                        |
| 200043c | 10246 | " " " " " Set Screw (2) .....                                             |
| 202310  | 13306 | Feed Regulating Spindle with 202311, 202443 and 202619 .....              |
| *202311 | —     | Feed Regulating Spindle Head ...                                          |
| 202443  | 13304 | " " " " Pin                                                               |
| 202619  | 13304 | " " " " " Position Pin .....                                              |
| 203061  | 13301 | Foot Lifter Lifting Lever .....                                           |
| 203084  | —     | " " " " 203061 with 200262H .....                                         |

| No.     | Plate | Name                                                                                                           |
|---------|-------|----------------------------------------------------------------------------------------------------------------|
| 200262H | 13304 | Foot Lifter Lifting Lever Hinge Screw .....                                                                    |
| 234019  | 13301 | Foot Lifter Lifting Lever Rod with 202302 .....                                                                |
| 202302  | —     | Foot Lifter Lifting Lever Rod Cotter Pin .....                                                                 |
| 203058  | 13304 | Foot Lifter Lifting Lever Rod Coupling with 200530c .....                                                      |
| 200530c | —     | Foot Lifter Lifting Lever Rod Coupling Set Screw .....                                                         |
| 203059  | 13304 | Foot Lifter Lifting Lever Rod Spring .....                                                                     |
| 203060  | 13304 | Foot Lifter Lifting Lever Rod Spring Hook .....                                                                |
| *234135 | —     | Hook (sewing) .....                                                                                            |
| 234194  | 13346 | " 234135 with 203525 and two 201253F .....                                                                     |
| 234195  | —     | Hook and Bobbin Case complete, Nos. 234082 and 234194 .....                                                    |
| 234068  | 13305 | Hook Bevel Gear Socket, 14 teeth                                                                               |
| 234024  | 13304 | " " " " Friction Washer .....                                                                                  |
| 200555H | 13304 | Hook Bevel Gear Socket Screw ..                                                                                |
| 241551  | 13346 | " " Pinion, 28 teeth, with two 200378c (2) .....                                                               |
| 200378c | 13304 | Hook Bevel Pinion Set Screw ....                                                                               |
| 234026  | 13301 | " Driving Shaft .....                                                                                          |
| 202321  | 10245 | " " " Bushing (3) ...                                                                                          |
| 200346c | 10245 | " " " " Set Screw (3) .....                                                                                    |
| 234027  | 13304 | Hook Driving Shaft Collar with two 200378c (2) .....                                                           |
| 200378c | 13304 | Hook Driving Shaft Collar Set Screw .....                                                                      |
| 234028  | 13306 | Hook Driving Shaft Connection Belt Pulley with 202253 and two 201254c .....                                    |
| 201254c | 13304 | Hook Driving Shaft Connection Belt Pulley Set Screw .....                                                      |
| 202253  | 13302 | Hook Driving Shaft Connection Belt Pulley Spring Flange ....                                                   |
| 224392  | —     | Hook Driving Shaft Oil Packing (wick) (3) .....                                                                |
| 203525  | 13346 | Hook Gib .....                                                                                                 |
| 201253F | 13304 | " " Screw .....                                                                                                |
| 234069  | 13306 | " Post (inside or outside) .....                                                                               |
| 234196  | —     | " " 234069 with 200555H, 201272c, 202299, 234024, 234065, 234079, 234088, 234141, 234195 and two 200076D ..... |

| No.     | Plate | Name                                                                                                                               |
|---------|-------|------------------------------------------------------------------------------------------------------------------------------------|
| 234197  | —     | Hook Post 234196 with 203630, 221215, 234073 and eight 200583H                                                                     |
| 234198  | —     | Hook Post 234196 with 221215, 234074, 234083 and eight 200583H                                                                     |
| 200159F | 13304 | Hook Post Clamping Screw .....                                                                                                     |
| 203630  | 13305 | " " Cover Plate (back) (inside) .....                                                                                              |
| 234083  | 13316 | Hook Post Cover Plate (back) (outside) .....                                                                                       |
| 234073  | 13305 | Hook Post Cover Plate (front) (inside) .....                                                                                       |
| 234074  | 13305 | Hook Post Cover Plate (front) (outside) .....                                                                                      |
| 200583H | 13304 | Hook Post Cover Plate Screw ....                                                                                                   |
| 202299  | —     | " " Oil Packing (wick) ...                                                                                                         |
| 200008C | 11269 | " " Screw (4) .....                                                                                                                |
| 203637  | 11269 | " " Washer (4) .....                                                                                                               |
| 221215  | 13304 | " " Slide .....                                                                                                                    |
| 234141  | 13321 | " Washer .....                                                                                                                     |
| 234199  | —     | Hook Post Combination (inside and outside) complete, Nos. 234067, 234197, 234198 and two 200159F..                                 |
| 234039  | 13308 | Needle Bar and Holder, in gauges from $\frac{3}{32}$ to $\frac{5}{16}$ in., in steps of $\frac{1}{32}$ in., with two 200141F ..... |
| 234040  | —     | Needle Bar and Holder, in gauges from $\frac{3}{32}$ to 1 in., in steps of $\frac{1}{32}$ in., with two 200141F .....              |
| 202550  | 13308 | Needle Bar Bushing .....                                                                                                           |
| 200352C | 13308 | " " " Set Screw .....                                                                                                              |
| 202552  | 13308 | " " Connecting Link .....                                                                                                          |
| 236073  | 13305 | " " " " Oil Guard .....                                                                                                            |
| 200161D | 12319 | Needle Bar Connecting Link Oil Guard Screw .....                                                                                   |
| 202333  | 13308 | Needle Bar Connecting Link Stud with 202254 .....                                                                                  |
| 202254  | —     | Needle Bar Connecting Link Stud Oil Packing (wick) .....                                                                           |
| 200374C | 13346 | Needle Bar Connecting Link Stud Set Screw .....                                                                                    |
| 200383C | 10246 | Needle Bar Connecting Link Stud Set Screw .....                                                                                    |
| *206891 | —     | Needle Bar Connecting Stud .....                                                                                                   |
| 202329  | 13308 | " " " " 206891 with 200086C and 202330 .....                                                                                       |
| 202330  | —     | Needle Bar Connecting Stud Oil Packing (wick) .....                                                                                |
| 200086C | 13308 | Needle Bar Connecting Stud Pinch Screw .....                                                                                       |

| No.     | Plate | Name                                                                                                                                                                     |
|---------|-------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 202551  | 13305 | Needle Bar Crank with 200335C, 200374C, 200383C, 200428C and 202333 .....                                                                                                |
| 234143  | —     | Needle Bar Crank 202551 with 202329, 202399, 202400, 202552 and 234144 .....                                                                                             |
| 203172  | 13308 | Needle Bar Crank Friction Washer                                                                                                                                         |
| 200428C | 13308 | " " " Position Screw ..                                                                                                                                                  |
| 200335C | 13302 | " " " Set Screw .....                                                                                                                                                    |
| 200141F | 13308 | " Set Screw .....                                                                                                                                                        |
| 244033  | —     | Presser Bar (hollow) .....                                                                                                                                               |
| 202335  | 13305 | " " 244033 with 200074F..                                                                                                                                                |
| 241535  | 13346 | " " Bushing .....                                                                                                                                                        |
| 200352C | 13308 | " " " Set Screw .....                                                                                                                                                    |
| 202554  | 13346 | " " Lifter .....                                                                                                                                                         |
| 200653C | 13307 | " " Hinge Screw ...                                                                                                                                                      |
| 244006  | 13346 | " " Lifting Releasing Lever Bracket .....                                                                                                                                |
| 200260D | 13307 | Presser Bar Lifting Releasing Lever Bracket Guide Screw .....                                                                                                            |
| 206608  | 13346 | Presser Bar Lifting Releasing Lever Bracket Spring (spiral) .....                                                                                                        |
| 202337  | 13307 | Presser Bar Position Guide .....                                                                                                                                         |
| 202338  | 13307 | " " " " Lever with 200086F .....                                                                                                                                         |
| 200086F | 13308 | Presser Bar Position Guide Lever Pinch Screw .....                                                                                                                       |
| 200352C | 13308 | Presser Bar Position Guide Set Screw .....                                                                                                                               |
| 236089  | 13346 | Presser Bar Spring .....                                                                                                                                                 |
| 234044  | 13307 | " " " Stop Rod .....                                                                                                                                                     |
| 200492R | 13307 | " " Thumb Screw (pressure regulating) .....                                                                                                                              |
| 200475B | 13307 | Presser Bar Thumb Screw Thumb Set Screw .....                                                                                                                            |
| 202355  | 13307 | Presser Bar Thumb Screw Thumb Set Screw Packing (brass) ....                                                                                                             |
| 230795  | 13307 | Presser Foot Hinge Pin .....                                                                                                                                             |
| 229466  | —     | " " Plate, for 229467 ....                                                                                                                                               |
| 229468  | —     | " " " 229469 ....                                                                                                                                                        |
| 229920  | —     | " " " " 229921 ....                                                                                                                                                      |
| 229922  | —     | " " " " 229923 ....                                                                                                                                                      |
| 229924  | —     | " " " " 229925 ....                                                                                                                                                      |
| 202923  | —     | " " Shank .....                                                                                                                                                          |
| 229467  | 14033 | Presser Foot (hinged) complete, 38 needle hole, in gauges from $\frac{1}{8}$ to $\frac{5}{16}$ in., in steps of $\frac{1}{16}$ in., Nos. 202923, 229466 and 230795 ..... |

| No.     | Plate | Name                                                                                                                                                                                    |
|---------|-------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 229469  | 14033 | Presser Foot (hinged) complete, 38 needle hole, in gauges $\frac{11}{16}$ , $\frac{3}{4}$ , $\frac{13}{16}$ and $\frac{1}{2}$ in., Nos. 202923, 229468 and 230795, for overall work ... |
| 229921  | 11790 | Presser Foot (hinged) complete, 38 needle hole, in gauges $\frac{11}{16}$ , $\frac{3}{4}$ , $\frac{13}{16}$ and $\frac{1}{2}$ in., Nos. 202923, 229920 and 230795, for overall work ... |
| 229923  | 11790 | Presser Foot (hinged) complete, 38 needle hole, in gauges $\frac{11}{16}$ and $\frac{3}{4}$ in., Nos. 202923, 229922 and 230795, for overall work ...                                   |
| 229925  | 11790 | Presser Foot (hinged) complete, 38 needle hole, in gauges $\frac{11}{16}$ , $\frac{11}{16}$ , $\frac{3}{4}$ and $\frac{3}{4}$ in., Nos. 202923, 229924 and 230795, for overall work ... |
| 200074F | 13307 | Presser Foot Screw .....                                                                                                                                                                |
| 234144  | 13321 | Take-up Lever .....                                                                                                                                                                     |
| 202399  | 13307 | " " Driving Stud with 202277 .....                                                                                                                                                      |
| 202277  | ----  | Take-up Lever Driving Stud Oil Packing (wick) .....                                                                                                                                     |
| 202400  | 13307 | Take-up Lever Hinge Stud with 202423 .....                                                                                                                                              |
| 202423  | ----  | Take-up Lever Hinge Stud Oil Packing (wick) .....                                                                                                                                       |
| 200383C | 10246 | Take-up Lever Hinge Stud Set Screw .....                                                                                                                                                |
| 202401  | ----  | Take-up Lever Oiling Felt .....                                                                                                                                                         |
| 200132E | 13307 | " " " " Screw ..                                                                                                                                                                        |
| 234086  | 13307 | Tension Bracket with two each 200397H, 201224B and 236060 ....                                                                                                                          |
| 200159F | 13304 | Tension Bracket Screw .....                                                                                                                                                             |
| 234047  | 13309 | " " " " Socket ....                                                                                                                                                                     |
| 200368H | 13309 | " " " " Set Screw .....                                                                                                                                                                 |
| 236098  | 13346 | Tension Bracket Thread Guide (double) .....                                                                                                                                             |
| 200174H | 13346 | Tension Bracket Thread Guide Screw .....                                                                                                                                                |
| 234087  | ----  | Tension Bracket complete, Nos. 200174H, 200978H, 201199F, 223703, 223706, 223707, 234086, 236098, two each 13710, 200309E, 204059, 204271, 223704, three 201572B and four 244007 .....  |

| No.     | Plate | Name                                                                                                                                                                          |
|---------|-------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 244007  | 13309 | Tension Disc .....                                                                                                                                                            |
| 236060  | 13309 | " " Position Pin .....                                                                                                                                                        |
| 223703  | 13309 | " Release Lever .....                                                                                                                                                         |
| 234049  | 13309 | " " " Rod .....                                                                                                                                                               |
| 200309E | 13309 | " " " Screw .....                                                                                                                                                             |
| 223704  | 13309 | " " Plunger .....                                                                                                                                                             |
| 204271  | 13309 | " " Washer .....                                                                                                                                                              |
| 13710   | 13332 | " Spring .....                                                                                                                                                                |
| 201224B | 13309 | " Stud .....                                                                                                                                                                  |
| 201572B | 10881 | " Thumb Nut .....                                                                                                                                                             |
| 223706  | 13309 | Thread Controller Disc .....                                                                                                                                                  |
| 200978H | 13309 | " " " Screw ....                                                                                                                                                              |
| 223707  | 13309 | " " Spring .....                                                                                                                                                              |
| 212117  | 13309 | " " " Stop .....                                                                                                                                                              |
| 200132E | 13307 | " " " " Screw..                                                                                                                                                               |
| 201199F | 13309 | " " Stud with 204925 ..                                                                                                                                                       |
| 200061C | 13346 | " " " Set Screw ....                                                                                                                                                          |
| 201572B | 10881 | " " " Thumb Nut ..                                                                                                                                                            |
| 204925  | 13309 | " " " Washer .....                                                                                                                                                            |
| 202414  | 13309 | " Guide .....                                                                                                                                                                 |
| 202415  | 13309 | " " .....                                                                                                                                                                     |
| 202417  | 13309 | " " .....                                                                                                                                                                     |
| 203313  | 13309 | " " .....                                                                                                                                                                     |
| 200355H | 12319 | " " Set Screw .....                                                                                                                                                           |
| 200397H | 13309 | " " " " .....                                                                                                                                                                 |
| 200582H | 13309 | " " Screw .....                                                                                                                                                               |
| 202091  | 13309 | " Retainer Sleeve .....                                                                                                                                                       |
| 202092  | 13309 | " " Spring .....                                                                                                                                                              |
| 204058  | 13309 | " " Stud .....                                                                                                                                                                |
| 200397H | 13309 | " " " Set Screw .....                                                                                                                                                         |
| 204059  | 13309 | Thread Retainer complete, Nos. 202091, 202092 and 204058 .....                                                                                                                |
| 234153  | 13341 | Throat Plate, 46 needle hole, for needle sizes 16 and 18, in gauges $\frac{1}{8}$ and $\frac{5}{16}$ in., for 212782 .....                                                    |
| 234111  | 13318 | Throat Plate, 46 needle hole, for needle sizes 16 and 18, in gauges from $\frac{3}{16}$ to $\frac{1}{4}$ in., in steps of $\frac{1}{32}$ in., for 234130 .....                |
| 234156  | 13319 | Throat Plate, 46 needle hole, for needle sizes 16 and 18, in gauges $\frac{11}{16}$ , $\frac{3}{4}$ and $\frac{13}{16}$ in., for 212731 .....                                 |
| 234154  | 13319 | Throat Plate, 46 needle hole, for needle sizes 16 and 18, in gauges $\frac{1}{8}$ , $\frac{11}{16}$ , $\frac{5}{16}$ , $\frac{3}{16}$ and $\frac{1}{4}$ in., for 212734 ..... |
| 234157  | 13319 | Throat Plate, 46 needle hole, for needle sizes 16 and 18, in gauges $\frac{11}{16}$ and $\frac{3}{4}$ in., for 212737 .....                                                   |
| 200577H | 10245 | Throat Plate Screw (2) .....                                                                                                                                                  |

## ACCESSORIES

### FOR MACHINE No. 52w12

| No.     | Plate | Name                                                           |
|---------|-------|----------------------------------------------------------------|
| 203208  | 13313 | Bobbin (10) .....                                              |
| *225482 | —     | " Case Screw Driver Blade ..                                   |
| *225483 | —     | " " " " Handle ..                                              |
| 225497  | 12345 | Bobbin Case Screw Driver complete, Nos. 225482 and 225483 ..   |
| 128x13  | ---   | Needles, six each, sizes 12 and 14                             |
| 228213  | ---   | Drip Pan with four 1 in. wire nails                            |
| 41400   | 12345 | Machine Rest Pin (wood) .....                                  |
| 120342  | 12345 | Oiler (copper plated) with 120343..                            |
| 120343  | 12345 | " Spout, 3½ in. long .....                                     |
| *225484 | —     | Screw Driver Blade .....                                       |
| *225485 | ---   | " " Handle .....                                               |
| 225498  | 12345 | Screw Driver complete (7¼ in. long), Nos. 225484 and 225485 .. |
| 225554  | 12345 | 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               |
| 225461  | 10881 | Tension Bracket with 201499B .... |
| 200082D | 10881 | " " Screw .....                   |
| 228026  | 10884 | " " " Washer .....                |
| 2102    | 10881 | " Disc .....                      |
| 202407  | 10881 | " Spring .....                    |
| 201499B | 10881 | " Stud .....                      |
| 201572B | 10881 | " Thumb Nut .....                 |

| No.    | Plate | Name                                                                                                                                                                                                           |
|--------|-------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 225462 | 10881 | Bobbin Winder Tension Bracket complete, Nos. 201572B, 202407, 225461 and two 2102 .....                                                                                                                        |
| 225433 | 10885 | Bobbin Winder and Tension Bracket Base .....                                                                                                                                                                   |
| 225382 | 10885 | Universal Bobbin Winder complete, Nos. 200056E, 200082D, 200299H, 202473, 202478, 225381, 225433, 225444, 225453 to 225456, 225458, 225462, 228026, two each 225459 and wood screws ¾ in., No. 12, R.H.B. .... |

### FOOT LIFTER

|        |       |                                                                                          |
|--------|-------|------------------------------------------------------------------------------------------|
| 227952 | 11156 | Foot Lifter Lever (left or right) with 227954 .....                                      |
| 227678 | 11156 | Foot Lifter Lever Chain, 48 in. long, with 202784 .....                                  |
| 227954 | 11488 | Foot Lifter Lever Chain Hook (lower) .....                                               |
| 202784 | 11488 | Foot Lifter Lever Chain Hook (upper) .....                                               |
| 225016 | 11488 | Foot Lifter Lever Hinge Pin .....                                                        |
| 227953 | 11156 | " " " Stand with two wood screws 1 in., No. 12 .....                                     |
| 227955 | 11156 | Foot Lifter Lever (left or right) complete, Nos. 225016, 227678, 227952 and 227953 ..... |

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

### THREAD UNWINDER

|         |       |                                                |
|---------|-------|------------------------------------------------|
| 225389  | 14083 | Spool Rest (for one spool) with 201018c .....  |
| 225395  | 14083 | Spool Rest (for two spools) with 201018c ..... |
| 225388  | 14083 | Spool Rest Rod .....                           |
| 200383c | 10246 | " " " Set Screw .....                          |
| 201018c | 13346 | " " Set Screw .....                            |
| 202490  | 14083 | " " with 200383c .....                         |
| 225391  | 14083 | Thread Guide .....                             |
| 201696J | 13346 | " " Lock Nut .....                             |
| 225392  | 14083 | " " Rod with 208E and 225393 .....             |

| No.    | Plate | Name                                                                                                                                                                             |
|--------|-------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 208E   | 13346 | Thread Guide Rod Screw .....                                                                                                                                                     |
| 225393 | 13346 | " " " Washer .....                                                                                                                                                               |
| 225397 | 14083 | Thread Unwinder (for three spools)<br>complete, Nos. 201696J, 202490,<br>225388, 225389, 225392, 225395,<br>three each 225391 and wood<br>screws $\frac{3}{8}$ in., No. 12 ..... |

#### FOR MACHINE No. 52w13

Same as for No. 52w12 with the following  
exception:

|        |    |                                                                         |
|--------|----|-------------------------------------------------------------------------|
| 128x13 | —— | Needles, twelve, size 20, in place<br>of six each, sizes 12 and 14 .... |
|--------|----|-------------------------------------------------------------------------|

## FEED DOGS

| No.    | Plate | Name                                             |
|--------|-------|--------------------------------------------------|
| 234050 | 13310 | Feed Dog, for 234100 .....                       |
| 234051 | 13310 | " " " 234101 and 234106 ..                       |
| 234052 | 13312 | " " " 234106 .....                               |
| 212701 | 13310 | " " " 234102 and 234107 ..                       |
| 221537 | 13341 | " " " 234105 and 234119 ..                       |
| 212795 | 13311 | " " " 234103 and 234105 ..                       |
| 212721 | 13318 | " " " 234108, 234110 and<br>234111 .....         |
| 212673 | 13320 | Feed Dog, for 234117 .....                       |
| 212692 | 13320 | " " " 234117 .....                               |
| 212720 | 13318 | " " " 234111 .....                               |
| 212724 | 13318 | " " " 234112 and 234120 ..                       |
| 212725 | 13318 | " " " 234112 and 234120 ..                       |
| 212731 | 13319 | " " " 234113 .....                               |
| 212732 | 13319 | " " " 234113 .....                               |
| 212734 | 13319 | " " " 234114 and 234151 ..                       |
| 212737 | 13319 | " " " 234115 .....                               |
| 234053 | 13320 | " " " 234118 .....                               |
| 221539 | 13311 | " " " 234102, 234104,<br>234107 and 234109 ..... |
| 234131 | 13321 | Feed Dog, for 234112 and 234120 ..               |
| 234130 | 13321 | " " " 234111 and 234152 ..                       |
| 234133 | 13321 | " " " 234101 .....                               |
| 212782 | 13341 | " " " 234150 and 234153 ..                       |
| 234201 | 13312 | " " " 234106 .....                               |

## PRESSER FEET

FOR MACHINE No. 52w12

| No.    | Plate | Name                                                                                                                                                                  |
|--------|-------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 229451 | 13317 | Presser Foot, 46 needle hole, in gauges from $\frac{1}{16}$ to $\frac{1}{4}$ in., in steps of $\frac{1}{16}$ inch .....                                               |
| 223909 | 13314 | Presser Foot, 46 needle hole, in gauges $\frac{1}{16}$ , $\frac{1}{8}$ , $\frac{3}{16}$ and $\frac{1}{4}$ inch .....                                                  |
| 202090 | —     | Presser Foot Hinge Pin .....                                                                                                                                          |
| 230795 | 13307 | " " " " .....                                                                                                                                                         |
| 229090 | —     | " " Plate, for 229091 ....                                                                                                                                            |
| 229939 | —     | " " " " 229940 ....                                                                                                                                                   |
| 229548 | —     | " " " " 229549 ....                                                                                                                                                   |
| 229480 | —     | " " " " 229481 ....                                                                                                                                                   |
| 229482 | —     | " " " " 229483 ....                                                                                                                                                   |
| 229470 | —     | " " " " 229471 ....                                                                                                                                                   |
| 229472 | —     | " " " " 229473 ....                                                                                                                                                   |
| 229372 | —     | " " " " 229373 ....                                                                                                                                                   |
| 229918 | —     | " " " " 229919 ....                                                                                                                                                   |
| 229440 | —     | " " " " 229441 ....                                                                                                                                                   |
| 221423 | —     | " " " " 221424 ....                                                                                                                                                   |
| 223910 | —     | " " " " 223911 ....                                                                                                                                                   |
| 229454 | —     | " " " " 229455 ....                                                                                                                                                   |
| 229456 | —     | " " " " 229457 ....                                                                                                                                                   |
| 229458 | —     | " " " " 229459 ....                                                                                                                                                   |
| 229460 | —     | " " " " 229461 ....                                                                                                                                                   |
| 229462 | —     | " " " " 229463 ....                                                                                                                                                   |
| 229476 | —     | " " " " 229477 ....                                                                                                                                                   |
| 229478 | —     | " " " " 229479 ....                                                                                                                                                   |
| 202923 | —     | " " Shank .....                                                                                                                                                       |
| 202926 | —     | " " " for 2 2 1 4 2 4, 229373, 229471 and 229473 .....                                                                                                                |
| 223911 | 11789 | Presser Foot (hinged) complete, 50 needle hole, in gauges $\frac{1}{16}$ , $\frac{1}{8}$ , $\frac{3}{16}$ and $\frac{1}{4}$ in., Nos. 202923, 223910 and 230795 ..... |
| 229455 | 11789 | Presser Foot (hinged) complete, 46 needle hole, in gauges $\frac{1}{16}$ , $\frac{1}{8}$ and $\frac{3}{16}$ in., Nos. 202923, 229454 and 230795 .....                 |
| 229457 | 13314 | Presser Foot (hinged) complete, 46 needle hole, in gauges $\frac{1}{16}$ , $\frac{1}{8}$ and $\frac{3}{16}$ in., Nos. 202923, 229456 and 230795 .....                 |

| No.    | Plate | Name                                                                                                                                                                     |
|--------|-------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 229459 | 13314 | Presser Foot (hinged) complete, 46 needle hole, in gauges $\frac{1}{16}$ , $\frac{1}{8}$ , $\frac{3}{16}$ and $\frac{1}{4}$ in., Nos. 202923, 229458 and 230795 .....    |
| 229461 | 13314 | Presser Foot (hinged) complete, 46 needle hole, in gauges from $\frac{1}{16}$ to $\frac{1}{4}$ in., in steps of $\frac{1}{16}$ in., Nos. 202923, 229460 and 230795 ..... |
| 229463 | 13314 | Presser Foot (hinged) complete, 46 needle hole, in gauges $\frac{1}{16}$ , $\frac{1}{8}$ , $\frac{3}{16}$ and $\frac{1}{4}$ in., Nos. 202923, 229462 and 230795 .....    |

### FOR FELLING

|        |       |                                                                                                                                                                                                                           |
|--------|-------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 229477 | 14031 | Presser Foot (hinged) complete, 46 needle hole, in gauges $\frac{1}{16}$ , $\frac{1}{8}$ , $\frac{3}{16}$ and $\frac{1}{4}$ in., Nos. 202923, 229476 and 230795 .....                                                     |
| 229479 | 14031 | Presser Foot (hinged) complete, 46 needle hole, in gauges $\frac{1}{16}$ , $\frac{1}{8}$ and $\frac{3}{16}$ in., Nos. 202923, 229478 and 230795 .....                                                                     |
| 229481 | 14031 | Presser Foot (hinged) complete, 46 needle hole, in gauges $\frac{1}{16}$ , $\frac{1}{8}$ , $\frac{3}{16}$ and $\frac{1}{4}$ in., Nos. 202923, 229480 and 230795 .....                                                     |
| 229483 | 13317 | Presser Foot (hinged) complete, 46 needle hole, in gauges from $\frac{1}{16}$ to $\frac{1}{4}$ in., in steps of $\frac{1}{16}$ in., Nos. 202923, 229482 and 230795 .....                                                  |
| 229471 | 14031 | Presser Foot (hinged) complete, 46 needle hole, in gauges $\frac{1}{16}$ , $\frac{1}{8}$ and $\frac{3}{16}$ in., Nos. 202926, 229470 and 230795. Hinge pin set back $\frac{1}{16}$ in. from regular .....                 |
| 229473 | 14031 | Presser Foot (hinged) complete, 46 needle hole, in gauges $\frac{1}{16}$ , $\frac{1}{8}$ and $\frac{3}{16}$ in., Nos. 202926, 229472 and 230795. Hinge pin set back $\frac{1}{16}$ in. from regular .....                 |
| 229373 | 11789 | Presser Foot (hinged) complete, 46 needle hole, in gauges $\frac{1}{16}$ , $\frac{1}{8}$ , $\frac{3}{16}$ and $\frac{1}{4}$ in., Nos. 202926, 229372 and 230795. Hinge pin set back $\frac{1}{16}$ in. from regular ..... |
| 229919 | 11789 | Presser Foot (hinged) complete, 46 needle hole, in gauges $\frac{1}{16}$ , $\frac{1}{8}$ and $\frac{3}{16}$ in., Nos. 202923, 229918 and 230795 .....                                                                     |

| No.    | Plate | Name                                                                                                                                                                                                                                 |
|--------|-------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 229441 | 11789 | Presser Foot (hinged) complete, 46<br>needle hole, in gauges $\frac{1}{16}$ , $\frac{1}{8}$ , $\frac{3}{16}$<br>and $\frac{1}{4}$ in., Nos. 202923, 229440<br>and 230795 .....                                                       |
| 221424 | 11789 | Presser Foot (hinged) complete, 46<br>needle hole, in gauges $\frac{1}{16}$ , $\frac{1}{8}$ , $\frac{3}{16}$<br>and $\frac{1}{4}$ in., Nos. 202926, 221423<br>and 230795. Hinge pin set back<br>$\frac{1}{8}$ in. from regular ..... |

## FOR STRIP WORK

|        |       |                                                                                                                                                                                                 |
|--------|-------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 229091 | 13314 | Presser Foot (hinged) complete, 46<br>needle hole, in gauges $\frac{1}{16}$ , $\frac{1}{8}$ , $\frac{3}{16}$ ,<br>$\frac{1}{4}$ and $\frac{5}{16}$ in., Nos. 202090, 202923<br>and 229090 ..... |
| 229940 | 13317 | Presser Foot (hinged) complete, 46<br>needle hole, in gauges $\frac{1}{16}$ , $\frac{1}{8}$ , $\frac{3}{16}$ ,<br>$\frac{1}{4}$ and $\frac{5}{16}$ in., Nos. 202923, 229939<br>and 230795 ..... |
| 229549 | 13317 | Presser Foot (hinged) complete, 46<br>needle hole, in gauges from $\frac{1}{16}$<br>to $\frac{5}{16}$ in., in steps of $\frac{1}{16}$ in., Nos.<br>202090, 202923 and 229548 .....              |

## FOR MACHINE No. 52w13

|        |       |                                                                                                                                                                                                        |
|--------|-------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 230795 | 13307 | Presser Foot Hinge Pin .....                                                                                                                                                                           |
| 202090 | —     | " " " " .....                                                                                                                                                                                          |
| 229466 | —     | " " Plate, for 229467 ....                                                                                                                                                                             |
| 229468 | —     | " " " " 229469 ....                                                                                                                                                                                    |
| 229488 | —     | " " " " 229489 ....                                                                                                                                                                                    |
| 229490 | —     | " " " " 229491 ....                                                                                                                                                                                    |
| 229920 | —     | " " " " 229921 ....                                                                                                                                                                                    |
| 229922 | —     | " " " " 229923 ....                                                                                                                                                                                    |
| 229924 | —     | " " " " 229925 ....                                                                                                                                                                                    |
| 229926 | —     | " " " " 229927 ....                                                                                                                                                                                    |
| 229928 | —     | " " " " 229929 ....                                                                                                                                                                                    |
| 229930 | —     | " " " " 229931 ....                                                                                                                                                                                    |
| 229506 | —     | " " " " 229507 ....                                                                                                                                                                                    |
| 202996 | —     | " " Shank .....                                                                                                                                                                                        |
| 202923 | —     | " " " " .....                                                                                                                                                                                          |
| 202989 | 13314 | " " Spring .....                                                                                                                                                                                       |
| 229467 | 14033 | Presser Foot (hinged) complete, 38<br>needle hole, in gauges from $\frac{1}{16}$<br>to $\frac{1}{4}$ in., in steps of $\frac{1}{16}$ in., Nos.<br>202923, 229466 and 230795, for<br>overall work ..... |

| No.    | Plate | Name                                                                                                                                                                                          |
|--------|-------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 229469 | 14033 | Presser Foot (hinged) complete, 38<br>needle hole, in gauges $\frac{1}{16}$ , $\frac{1}{8}$ , $\frac{3}{16}$<br>and $\frac{1}{4}$ in., Nos. 202923, 229468<br>and 230795, for overall work .. |
| 229921 | 11790 | Presser Foot (hinged) complete, 38<br>needle hole, in gauges $\frac{1}{16}$ , $\frac{1}{8}$ , $\frac{3}{16}$<br>and $\frac{1}{4}$ in., Nos. 202923, 229920<br>and 230795, for overall work .. |
| 229923 | 11790 | Presser Foot (hinged) complete, 38<br>needle hole, in gauges $\frac{1}{16}$ and $\frac{1}{8}$<br>in., Nos. 202923, 229922 and<br>230795, for overall work .....                               |
| 229925 | 11790 | Presser Foot (hinged) complete, 38<br>needle hole, in gauges $\frac{1}{16}$ , $\frac{1}{8}$ , $\frac{3}{16}$<br>and $\frac{1}{4}$ in., Nos. 202923, 229924<br>and 230795, for overall work .. |

## FOR FELLING

|        |       |                                                                                                                                                                                   |
|--------|-------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 229489 | 14033 | Presser Foot (hinged) complete, 38<br>needle hole, in gauges from $\frac{1}{16}$<br>to $\frac{1}{4}$ in., in steps of $\frac{1}{16}$ in., Nos.<br>202923, 229488 and 230795 ..... |
| 229491 | —     | Presser Foot (hinged) complete, 38<br>needle hole, in gauges $\frac{1}{16}$ , $\frac{1}{8}$ , $\frac{3}{16}$<br>and $\frac{1}{4}$ in., Nos. 202923, 229490<br>and 230795 .....    |
| 229927 | 11790 | Presser Foot (hinged) complete, 38<br>needle hole, in gauges $\frac{1}{16}$ , $\frac{1}{8}$ , $\frac{3}{16}$<br>and $\frac{1}{4}$ in., Nos. 202923, 229926<br>and 230795 .....    |
| 229929 | 11790 | Presser Foot (hinged) complete, 38<br>needle hole, in gauges $\frac{1}{16}$ and<br>$\frac{1}{8}$ in., Nos. 202923, 229928 and<br>230795 .....                                     |
| 229931 | 11790 | Presser Foot (hinged) complete, 38<br>needle hole, in gauges $\frac{1}{16}$ , $\frac{1}{8}$ , $\frac{3}{16}$<br>and $\frac{1}{4}$ in., Nos. 202923, 229930 and<br>230795 .....    |

## FOR STRIP WORK

|        |       |                                                                                                                                                                                                         |
|--------|-------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 229507 | 13317 | Presser Foot (hinged) complete, 40<br>needle hole, in gauges $\frac{1}{16}$ , $\frac{1}{8}$ , $\frac{3}{16}$ ,<br>$\frac{1}{4}$ and $\frac{5}{16}$ in., Nos. 202090, 202989,<br>202996 and 229506 ..... |
|--------|-------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

## THROAT PLATES

FOR MACHINE No. 52w12

| No.    | Plate | Name                                                                                                                                                                                     |
|--------|-------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 234100 | 13310 | Throat Plate, 50 needle hole, for needle sizes 14 and 15, in gauges $\frac{3}{16}$ , $\frac{1}{4}$ and $\frac{5}{16}$ in., for 234050, for felling .....                                 |
| 234101 | 13310 | Throat Plate, 50 needle hole, for needle sizes 14 and 15, in gauges $\frac{3}{16}$ , $\frac{1}{4}$ and $\frac{5}{16}$ in., for 234051, for felling .....                                 |
| 234106 | 13312 | Throat Plate, 50 needle hole, for needle sizes 14 and 15, in gauges $\frac{3}{16}$ , $\frac{1}{4}$ and $\frac{5}{16}$ in., for 234051 and 234052 .....                                   |
| 234102 | 13310 | Throat Plate, 50 needle hole, for needle sizes 14 and 15, in gauges $\frac{3}{16}$ and $\frac{1}{4}$ in., for 212701, 212702 and 221539 .....                                            |
| 234107 | 13312 | Throat Plate, 53 needle hole, for needle sizes 12 and 13, in gauges $\frac{1}{4}$ , $\frac{5}{16}$ and $\frac{3}{8}$ in., for 212701, 212702 and 221539 .....                            |
| 234104 | 13311 | Throat Plate, 53 needle hole, for needle sizes 12 and 13, in gauges $\frac{1}{4}$ , $\frac{5}{16}$ and $\frac{3}{8}$ in., for 212702 and 221539, for felling .....                       |
| 234105 | 13311 | Throat Plate, 50 needle hole, for needle sizes 14 and 15, in gauges $\frac{3}{16}$ , $\frac{5}{16}$ , $\frac{1}{4}$ , $\frac{5}{8}$ and $\frac{3}{8}$ in., for 212795 and 221537 .....   |
| 234103 | 13311 | Throat Plate, 50 needle hole, for needle sizes 14 and 15, in gauges $\frac{3}{16}$ , $\frac{5}{16}$ , $\frac{1}{4}$ , $\frac{5}{8}$ and $\frac{3}{8}$ in., for 212795, for felling ..... |
| 234108 | 13318 | Throat Plate, 40 needle hole, for needle sizes 20 and 22, in gauges from $\frac{3}{16}$ to $\frac{1}{4}$ in., in steps of $\frac{1}{32}$ in., for 212721, for felling .....              |
| 234109 | 13318 | Throat Plate, 50 needle hole, for needle sizes 14 and 15, in gauges $\frac{3}{16}$ and $\frac{1}{4}$ in., for 212702 and 221539, for felling .....                                       |

| No.    | Plate | Name                                                                                                                                                                        |
|--------|-------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 234110 | 13318 | Throat Plate, 46 needle hole, for needle sizes 16 and 18, in gauges from $\frac{3}{16}$ to $\frac{1}{4}$ in., in steps of $\frac{1}{32}$ in., for 212721, for felling ..... |
| 234111 | 13318 | Throat Plate, 46 needle hole, for needle sizes 16 and 18, in gauges from $\frac{3}{16}$ to $\frac{1}{4}$ in., in steps of $\frac{1}{32}$ in., for 212720 and 212721 .....   |
| 234112 | 13318 | Throat Plate, 50 needle hole, for needle sizes 14 and 15, in gauges from $\frac{1}{4}$ to $\frac{1}{2}$ in., in steps of $\frac{1}{16}$ in., for 212724 and 212725 .....    |
| 234113 | 13319 | Throat Plate, 50 needle hole, for needle sizes 14 and 15, in gauges from $\frac{1}{2}$ to $\frac{3}{4}$ in., in steps of $\frac{1}{16}$ in., for 212731 and 212732 .....    |
| 234114 | 13319 | Throat Plate, 50 needle hole, for needle sizes 14 and 15, in gauges $\frac{3}{8}$ , $\frac{1}{2}$ , $\frac{5}{8}$ , $\frac{3}{4}$ and $\frac{7}{8}$ in., for 212734 .....   |
| 234115 | 13319 | Throat Plate, 50 needle hole, for needle sizes 14 and 15, in gauges $\frac{3}{8}$ and $\frac{1}{2}$ in., for 212737 .....                                                   |
| 234117 | 13320 | Throat Plate, 50 needle hole, for needle sizes 14 and 15, in gauges $\frac{3}{8}$ , $\frac{1}{2}$ and $\frac{3}{4}$ in., for 212673 and 212692 .....                        |
| 234118 | 13320 | Throat Plate, 50 needle hole, for needle sizes 14 and 15, in gauges $\frac{1}{4}$ and $\frac{3}{8}$ in., for 234053 .....                                                   |
| 234119 | 13311 | Throat Plate, 46 needle hole, for needle sizes 16 and 18, in gauges from $\frac{3}{16}$ to $\frac{1}{4}$ in., in steps of $\frac{1}{32}$ in., for 221537 .....              |
| 234120 | 13318 | Throat Plate, 46 needle hole, for needle sizes 16 and 18, in gauges from $\frac{1}{4}$ to $\frac{1}{2}$ in., in steps of $\frac{1}{16}$ in., for 212724 and 212725 .....    |

FOR MACHINE No. 52w13

|        |       |                                                                                                                                                                             |
|--------|-------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 234150 | 13341 | Throat Plate, 50 needle hole, for needle sizes 14 and 15, in gauges $\frac{1}{4}$ , $\frac{5}{16}$ and $\frac{3}{8}$ in., for 212782 .....                                  |
| 234153 | 13341 | Throat Plate, 46 needle hole, for needle sizes 16 and 18, in gauges $\frac{1}{4}$ , $\frac{5}{16}$ and $\frac{3}{8}$ in., for 212782 .....                                  |
| 234105 | 13311 | Throat Plate, 50 needle hole, for needle sizes 14 and 15, in gauges $\frac{3}{16}$ , $\frac{5}{16}$ , $\frac{1}{4}$ , $\frac{5}{8}$ and $\frac{3}{8}$ in., for 221537 ..... |

| No.    | Plate | Name                                                                                                                                                                         |
|--------|-------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 234119 | 13311 | Throat Plate, 46 needle hole, for needle sizes 16 and 18, in gauges $\frac{3}{16}$ , $\frac{5}{16}$ , $\frac{7}{16}$ and $\frac{9}{16}$ in., for 221537                      |
| 234110 | 13318 | Throat Plate, 46 needle hole, for needle sizes 16 and 18, in gauges from $\frac{3}{16}$ to $\frac{9}{16}$ in., in steps of $\frac{1}{32}$ in., for 212721, for felling ..... |
| 234108 | 13318 | Throat Plate, 40 needle hole, for needle sizes 20 and 22, in gauges from $\frac{3}{16}$ to $\frac{9}{16}$ in., in steps of $\frac{1}{32}$ in., for 212721, for felling ..... |
| 234111 | 13318 | Throat Plate, 46 needle hole, for needle sizes 16 and 18, in gauges from $\frac{3}{16}$ to $\frac{9}{16}$ in., in steps of $\frac{1}{32}$ in., for 212720, 212721 and 234130 |
| 234152 | 13318 | Throat Plate, 40 needle hole, for needle sizes 20 and 22, in gauges from $\frac{3}{16}$ to $\frac{9}{16}$ in., in steps of $\frac{1}{32}$ in., for 234130 .....              |
| 234112 | 13318 | Throat Plate, 50 needle hole, for needle sizes 14 and 15, in gauges from $\frac{1}{4}$ to $\frac{1}{2}$ in., in steps of $\frac{1}{32}$ in., for 212724 and 234131 .....     |
| 234120 | 13318 | Throat Plate, 46 needle hole, for needle sizes 16 and 18, in gauges from $\frac{1}{4}$ to $\frac{1}{2}$ in., in steps of $\frac{1}{32}$ in., for 212724 and 234131 .....     |
| 234154 | 13319 | Throat Plate, 46 needle hole, for needle sizes 16 and 18, in gauges $\frac{3}{16}$ , $\frac{5}{16}$ , $\frac{7}{16}$ and $\frac{9}{16}$ in., for 212734                      |
| 234151 | 13319 | Throat Plate, 40 needle hole, for needle sizes 20 and 22, in gauges $\frac{3}{16}$ , $\frac{5}{16}$ , $\frac{7}{16}$ and $\frac{9}{16}$ in., for 212734                      |
| 234113 | 13319 | Throat Plate, 50 needle hole, for needle sizes 14 and 15, in gauges from $\frac{3}{8}$ to $\frac{1}{2}$ in., in steps of $\frac{1}{32}$ in., for 212731 and 212732 .....     |
| 234156 | 13319 | Throat Plate, 46 needle hole, for needle sizes 16 and 18, in gauges from $\frac{3}{8}$ to $\frac{1}{2}$ in., in steps of $\frac{1}{32}$ in., for 212731 and 212732 .....     |
| 234115 | 13319 | Throat Plate, 50 needle hole, for needle sizes 14 and 15, in gauges $\frac{3}{8}$ and $\frac{1}{2}$ in., for 212737 .....                                                    |
| 234157 | 13319 | Throat Plate, 46 needle hole, for needle sizes 16 and 18, in gauges $\frac{3}{8}$ and $\frac{1}{2}$ in., for 212737 .....                                                    |

## LAP SEAM FELLERS

Note: In ordering Lap Seam Fellers, give letter which refers to material to be used, in addition to the number.

- F Silks, fine muslins, etc., where there are no seams.
- L Fine shirts, underwear, corsets, etc.
- M General shirt and corset work, etc.
- MH Heavy corset and other medium heavy material.
- H Heavy shirt work, light overalls, etc.
- XH Overall and duck work.
- XXH Heavy duck and canvas work.
- XXXH Horse blankets, etc.
- XXXXH Extra heavy material with seams.

| No.    | Plate | Name                                                                                                                                                                                                                                                                   |
|--------|-------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 230035 | 11846 | Lap Seam Feller on Shank (left hand). For corsets. Has a Separator which prevents the "turned in" edges from overlapping. For $\frac{3}{8}$ to $\frac{1}{2}$ in. gauge machines. For L, M or MH material. Has no yielding spring .....                                 |
| 230036 | 11846 | Lap Seam Feller on Shank (right hand). For corsets. Has a Separator which prevents the "turned in" edges from overlapping. For $\frac{3}{8}$ to $\frac{1}{2}$ in. gauge machines. For L, M or MH material. Has no yielding spring .....                                |
| 230037 | 11847 | Lap Seam Feller on Shank (left hand). For corsets. Made extra short for small curves. Has a Separator which prevents the "turned in" edges from overlapping. For $\frac{3}{8}$ to $\frac{1}{2}$ in. gauge machines. For L, M or MH material. Has no yielding spring .. |

| No.    | Plate | Name                                                                                                                                                                                                                                                                    |
|--------|-------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 230038 | 11847 | Lap Seam Feller on Shank (right hand). For corsets. Made extra short for small curves. Has a Separator which prevents the "turned in" edges from overlapping. For $\frac{1}{8}$ to $\frac{3}{4}$ in. gauge machines. For L, M or MH material. Has no yielding spring .. |
| 230039 | 11847 | Lap Seam Feller on Shank (left hand). For $\frac{1}{8}$ to $\frac{3}{4}$ in. gauge machines. For F, L or M material. Has no yielding spring ..                                                                                                                          |
| 230040 | 11848 | Lap Seam Feller on Shank (right hand). For $\frac{1}{8}$ to $\frac{3}{4}$ in. gauge machines. For F, L or M material. Has no yielding spring ..                                                                                                                         |
| 230041 | 11848 | Lap Seam Feller on Shank (left hand). For $\frac{1}{8}$ to $\frac{3}{4}$ in. gauge machines. For F, L, M or MH material. Has no yielding spring ..                                                                                                                      |
| 230042 | 11848 | Lap Seam Feller on Shank (right hand). For $\frac{1}{8}$ to $\frac{3}{4}$ in. gauge machines. For F, L, M or MH material. Has no yielding spring ..                                                                                                                     |
| 230043 | 11846 | Lap Seam Feller on Shank (right hand). For $\frac{1}{8}$ to $\frac{3}{4}$ in. gauge machines. For M, MH, H, XH, XXH or XXXH material. Has no yielding spring ..                                                                                                         |
| 230044 | 11849 | Lap Seam Feller on Shank (left hand). For $\frac{1}{8}$ to $\frac{3}{4}$ in. gauge machines. For M, MH, H, XH, XXH or XXXH material. Has no yielding spring ..                                                                                                          |
| 230045 | 11849 | Lap Seam Feller on Shank (left hand). For $\frac{1}{8}$ to $\frac{3}{4}$ in. gauge machines. For M, MH, H, XH, XXH, XXXH or XXXXH material. Has no yielding spring ..                                                                                                   |
| 230046 | 11850 | Lap Seam Feller on Shank (right hand). For $\frac{1}{8}$ to $\frac{3}{4}$ in. gauge machines. For M, MH, H, XH, XXH, XXXH or XXXXH material. Has no yielding spring ..                                                                                                  |
| 230047 | 11851 | Lap Seam Feller on Shank (left hand). For general work. For $\frac{1}{8}$ to $\frac{3}{4}$ in. gauge machines. For F, L, M, MH or H material. Has yielding spring ..                                                                                                    |

| No.     | Plate | Name                                                                                                                                                                                              |
|---------|-------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 230048  | 11851 | Lap Seam Feller on Shank complete (right hand), for general work, for $\frac{1}{8}$ to $\frac{3}{4}$ in. gauge machines, for F, L, M, MH or H materials, Nos. 230998 to 231000 and two 200175b .. |
| 230049  | 11850 | Lap Seam Feller on Shank (left hand). Made short for felling curves. For $\frac{1}{8}$ to $\frac{3}{4}$ in. gauge machines. For F, L, M, MH, H or XH material. Has yielding spring ..             |
| 230050  | 11852 | Lap Seam Feller on Shank (right hand). Made short for felling curves. For $\frac{1}{8}$ to $\frac{3}{4}$ in. gauge machines. For F, L, M, MH, H or XH material. Has yielding spring ..            |
| 230055  | 11851 | Lap Seam Feller on Shank (left hand). For general work. For $\frac{1}{8}$ to $\frac{3}{4}$ in. gauge machines. For XH, XXH or XXXH material. Has yielding spring ..                               |
| 230056  | 11852 | Lap Seam Feller on Shank (right hand). For general work. For $\frac{1}{8}$ to $\frac{3}{4}$ in. gauge machines. For XH, XXH or XXXH material. Has yielding spring ..                              |
| 230998  | ----  | Lap Seam Feller Curl (lower) with 230734, for $\frac{1}{8}$ to $\frac{3}{4}$ in. gauge machines, for F, L, M, MH or H material ..                                                                 |
| 230734  | ----  | Lap Seam Feller Curl (lower) Spring (light) (right hand), for 230998 ..                                                                                                                           |
| 200175b | ----  | Lap Seam Feller Curl (lower) Spring Screw ..                                                                                                                                                      |
| 230999  | ----  | Lap Seam Feller Curl (upper), for $\frac{1}{8}$ to $\frac{3}{4}$ in. gauge machines, for F, L, M, MH or H material ..                                                                             |
| 231000  | ----  | Lap Seam Feller Shank, for $\frac{1}{8}$ to $\frac{3}{4}$ in. gauge machines, for F, L, M, MH or H material ..                                                                                    |

## WORK PLATE AND LAP SEAM

### FELLER BASE PLATE

| No.     | Plate | Name                                                                                   |
|---------|-------|----------------------------------------------------------------------------------------|
| 230356  | 14631 | Work Plate (adjustable) .....                                                          |
| 230852  | ----- | " " 230356 with 230357,<br>230358 and four 200169B .....                               |
| 230357  | 14631 | Work Plate Guide (left) .....                                                          |
| 230358  | 14631 | " " " (right) .....                                                                    |
| 200169B | 14631 | " " " Adjusting Screw .....                                                            |
| 200169B | 14631 | " " " Screw .....                                                                      |
| 230359  | 14631 | " " Lap Seam Feller Base<br>Plate .....                                                |
| 230853  | ----  | Work Plate Lap Seam Feller Base<br>Plate 230359 with 200153F and<br>201561D .....      |
| 201561D | 14631 | Work Plate Lap Seam Feller Base<br>Plate Thumb Nut .....                               |
| 200153F | 14631 | Work Plate Lap Seam Feller<br>Screw .....                                              |
| 230360  | ----- | Work Plate and Lap Seam Feller<br>Base Plate complete, Nos. 230852<br>and 230853 ..... |

### MISCELLANEOUS PARTS

Used in conjunction with Thread Unwinder

|        |       |                                |
|--------|-------|--------------------------------|
| 60913  | 14083 | Spool Weight with 60914 .....  |
| 60914  | ----- | " " Center Pin .....           |
| 225377 | 14083 | " Wire, for small spools ..... |

## OBSOLETE PARTS

| No.     | Plate | Name                                                                                                                                                                                                   |
|---------|-------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 203470  | 13302 | Bobbin .....                                                                                                                                                                                           |
| 234006  | 13313 | " Case Lever .....                                                                                                                                                                                     |
| 234076  | 13313 | " " " Fulcrum with<br>234008 .....                                                                                                                                                                     |
| 234077  | 13313 | Bobbin Case Lever Fulcrum<br>Washer .....                                                                                                                                                              |
| 203578  | 13313 | Bobbin Case Lever Slide .....                                                                                                                                                                          |
| 234008  | 13313 | " " " " Stud .....                                                                                                                                                                                     |
| 202470  | 12320 | " 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 $\frac{3}{4}$ in.,<br>No. 12 ..... |
| 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 ..                                                                   |
| 212702  | 13311 | Feed Dog, for 234102, 234104, 234107<br>and 234109 .....                                                                                                                                               |
| 234013  | 13315 | Feed Dog Lever Post .....                                                                                                                                                                              |
| 234014  | ----- | " " " " 234013 with<br>200265E, 201525E, 203610, 203624,<br>234012 and two 200098F .....                                                                                                               |
| *203511 | ----  | Hook (sewing) .....                                                                                                                                                                                    |
| 203512  | 13332 | " 203511 with 203513 and two<br>201253F .....                                                                                                                                                          |

| No.    | Plate | Name                                                                                                                |
|--------|-------|---------------------------------------------------------------------------------------------------------------------|
| 234023 | 13316 | Hook Bevel Gear Socket, 14 teeth                                                                                    |
| 234068 | 13305 | " " " " 14 teeth                                                                                                    |
| 234025 | 13304 | " " Pinion, 28 teeth, with two 200378s                                                                              |
| 234029 | 13315 | Hook Post (inside or outside)                                                                                       |
| 234030 | ----  | " " 234029 with 200099n, 200555n, 202299, 203512, 203578, 234006, 234023, 234021, 234036, 234076, 234077 and 234082 |
| 234031 | ----  | Hook Post 234030 with 203630, 221215, 234034 and eight 200583n                                                      |
| 234032 | ----  | Hook Post 234030 with 221215, 234033, 234035 and eight 200583n                                                      |
| 234033 | 13316 | Hook Post Cover Plate (back) (outside)                                                                              |
| 234034 | 13316 | Hook Post Cover Plate (front) (inside)                                                                              |
| 234035 | 13316 | Hook Post Cover Plate (front) (outside)                                                                             |
| 203254 | 13308 | Hook Washer                                                                                                         |
| 234036 | 13313 | " " with 203575 and two 221147                                                                                      |
| 234063 | ----  | Hook Post Combination (inside and outside) complete, Nos. 234014, 234031, 234032 and two 200159s                    |

## PLATE 10245—FULL SIZE

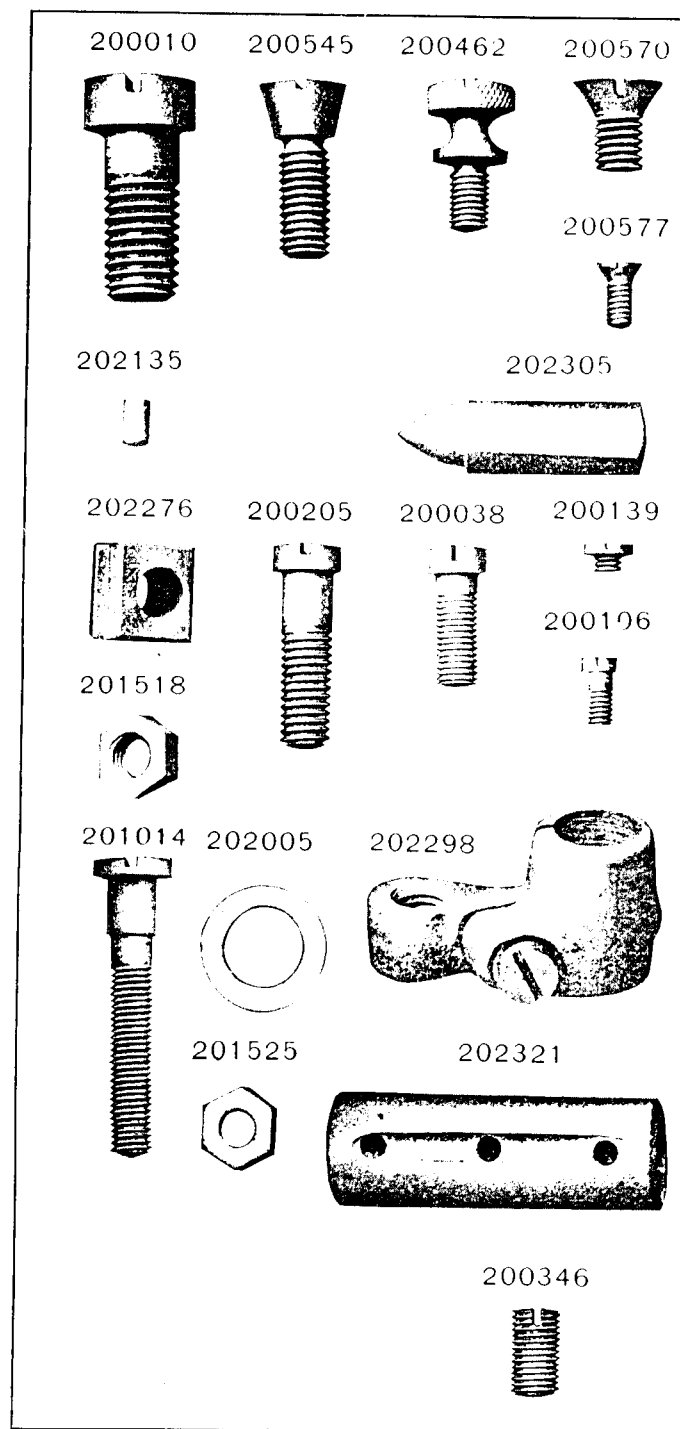


PLATE 10246—FULL SIZE

200641 202301 202300 200607



201522



202595



200429



200054



202446



200043



200437



200383



202307

200502

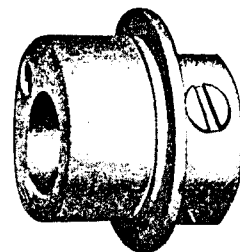
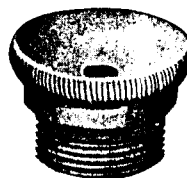
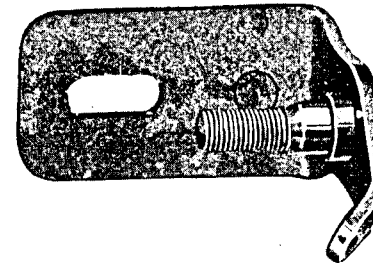


PLATE 10881—FULL SIZE

225461



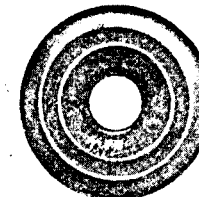
200082



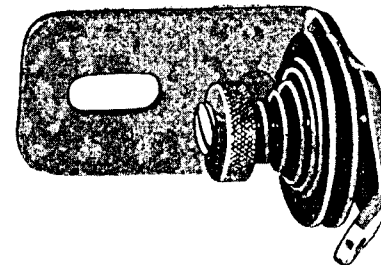
202104



2102



225462



202407



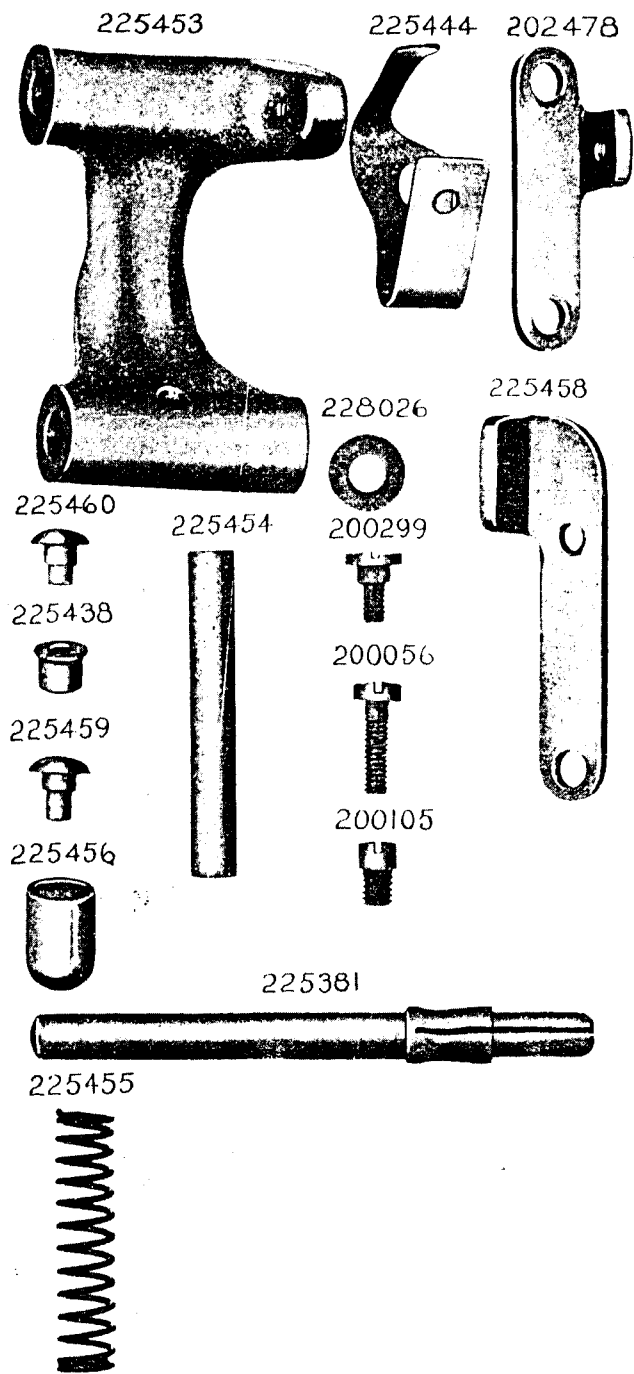
201499



201572



# PLATE 10884—FULL SIZE



# PLATE 10885—ONE-FOURTH SIZE

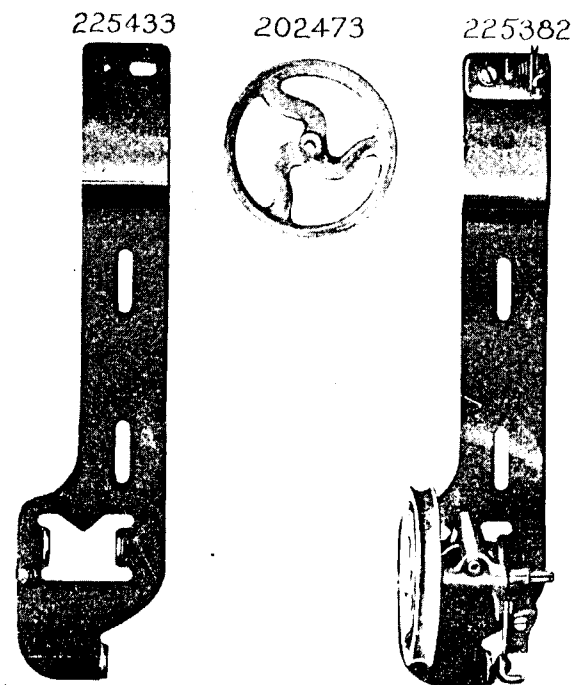


PLATE 11156 - ONE-FOURTH SIZE

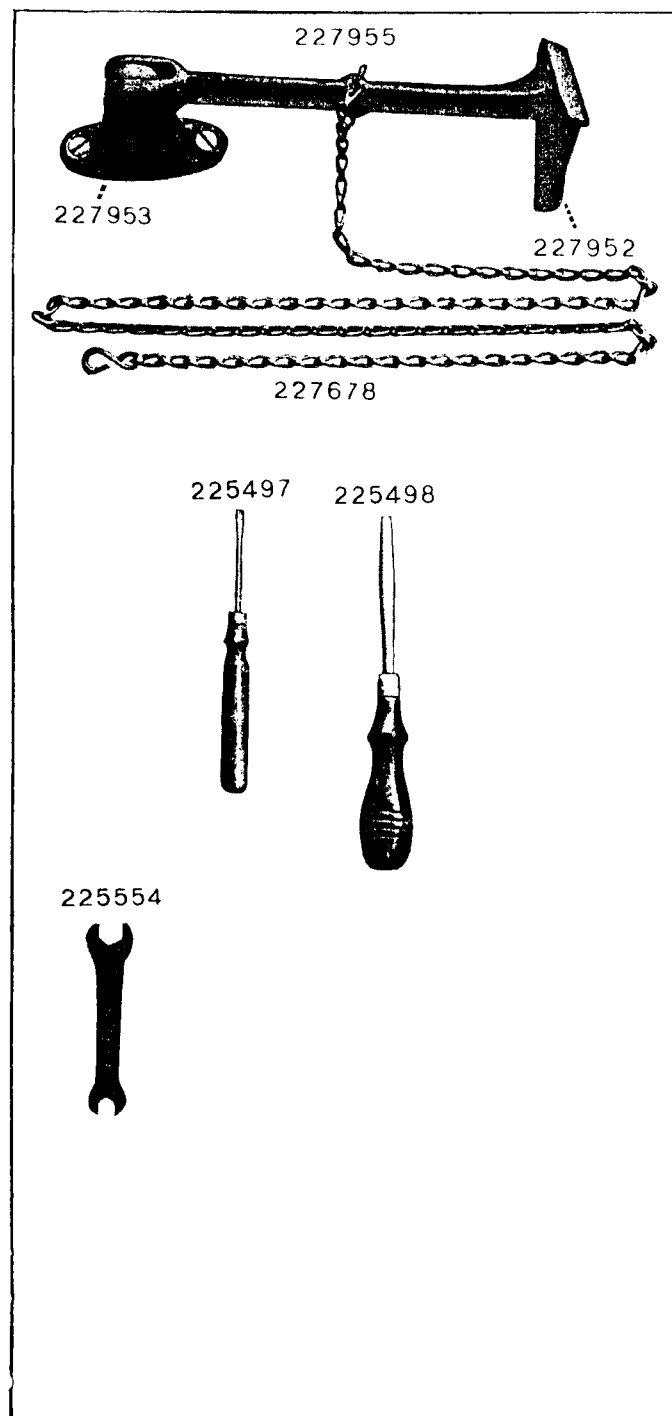


PLATE 11269 - FULL SIZE

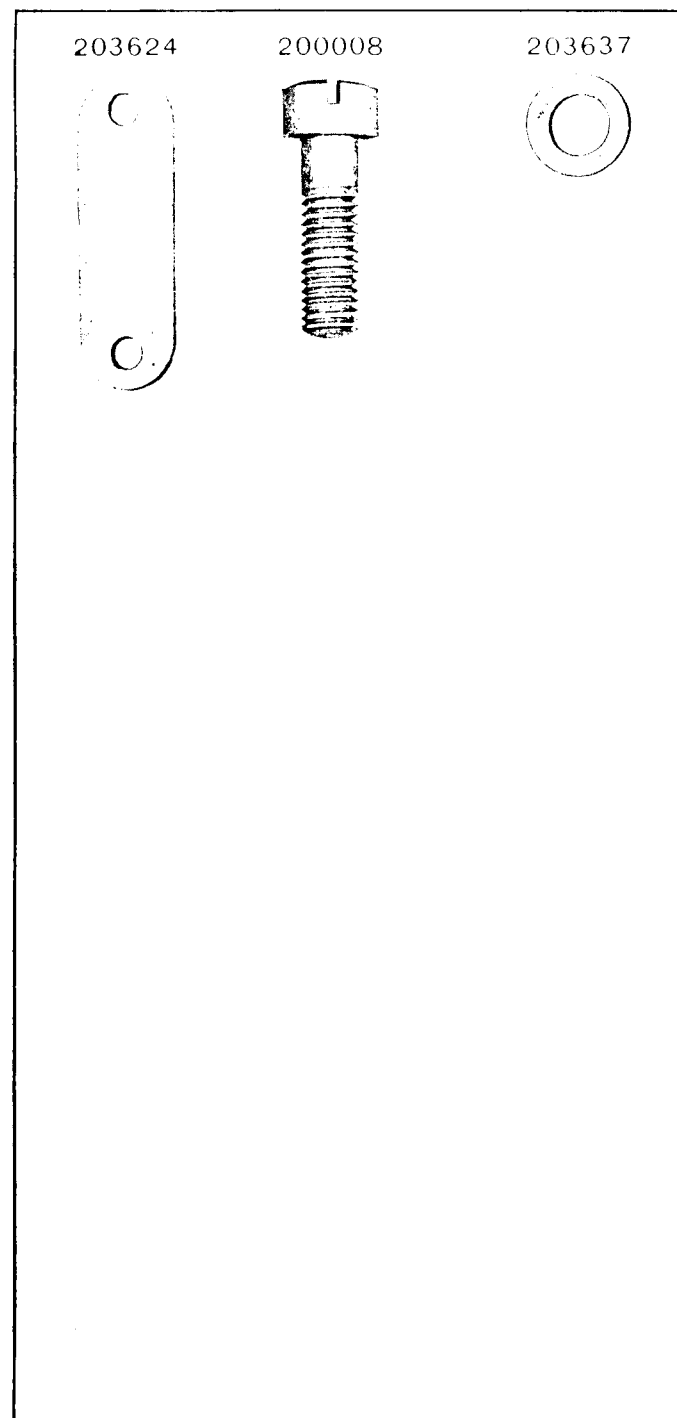


PLATE 11488 -FULL SIZE

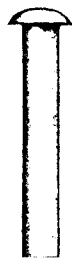
227954



202784



225016



597

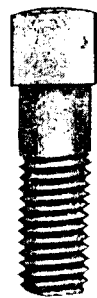
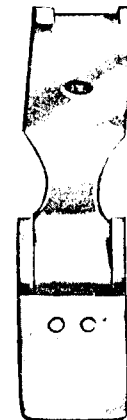
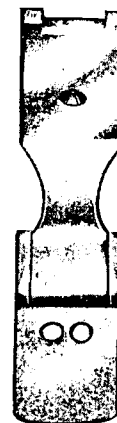


PLATE 11789 -FULL SIZE

223911



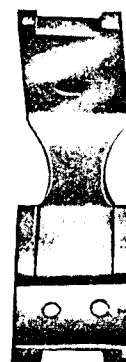
229455



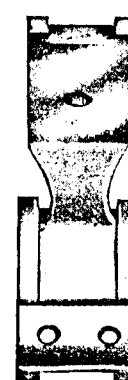
229919



221424



229441



229373

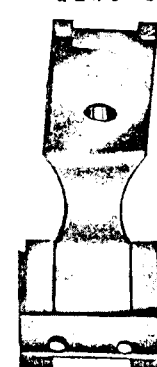


PLATE 11790 -FULL SIZE

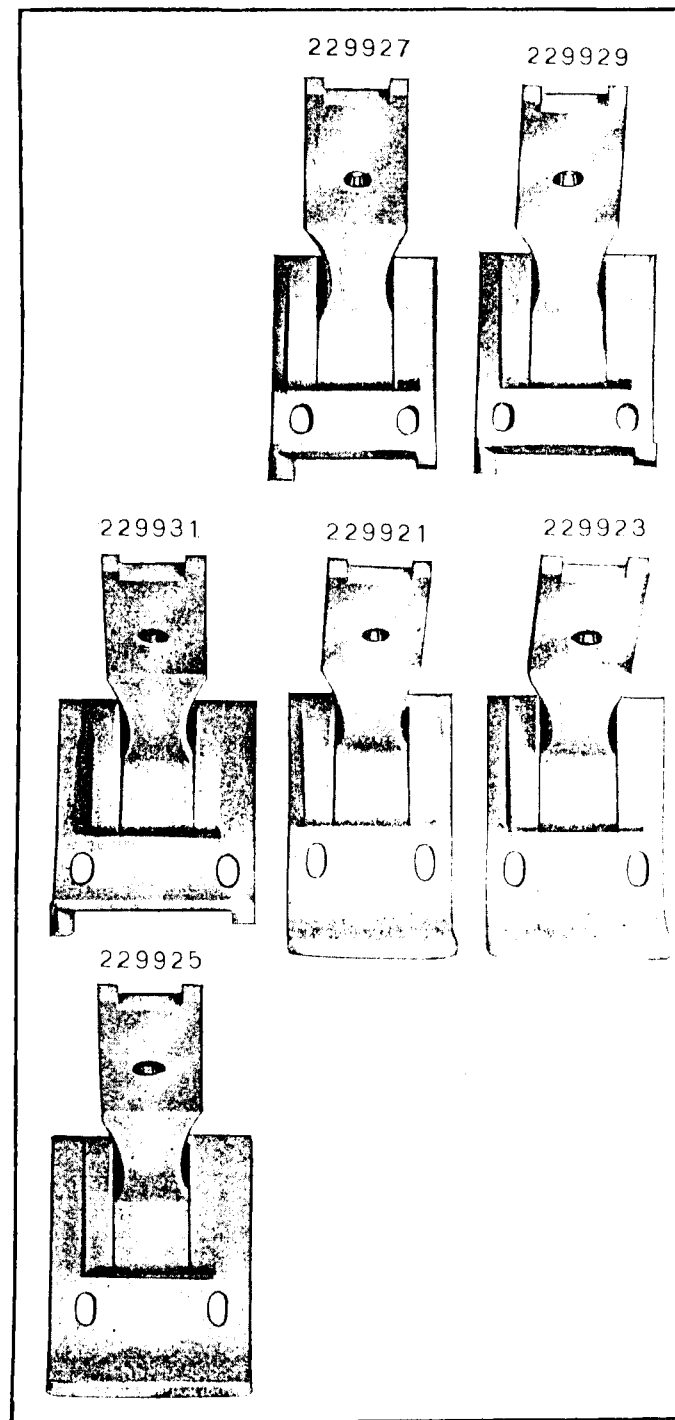


PLATE 11846 -FULL SIZE

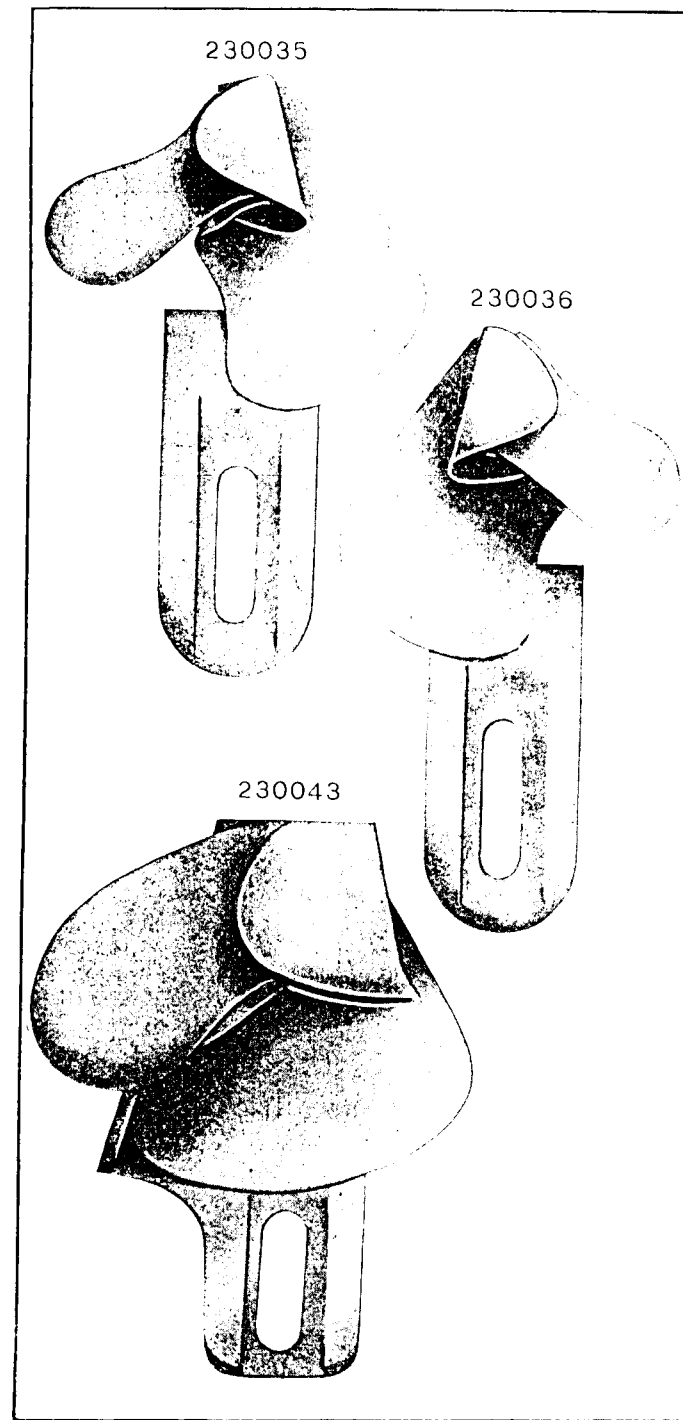


PLATE 11847 -FULL SIZE

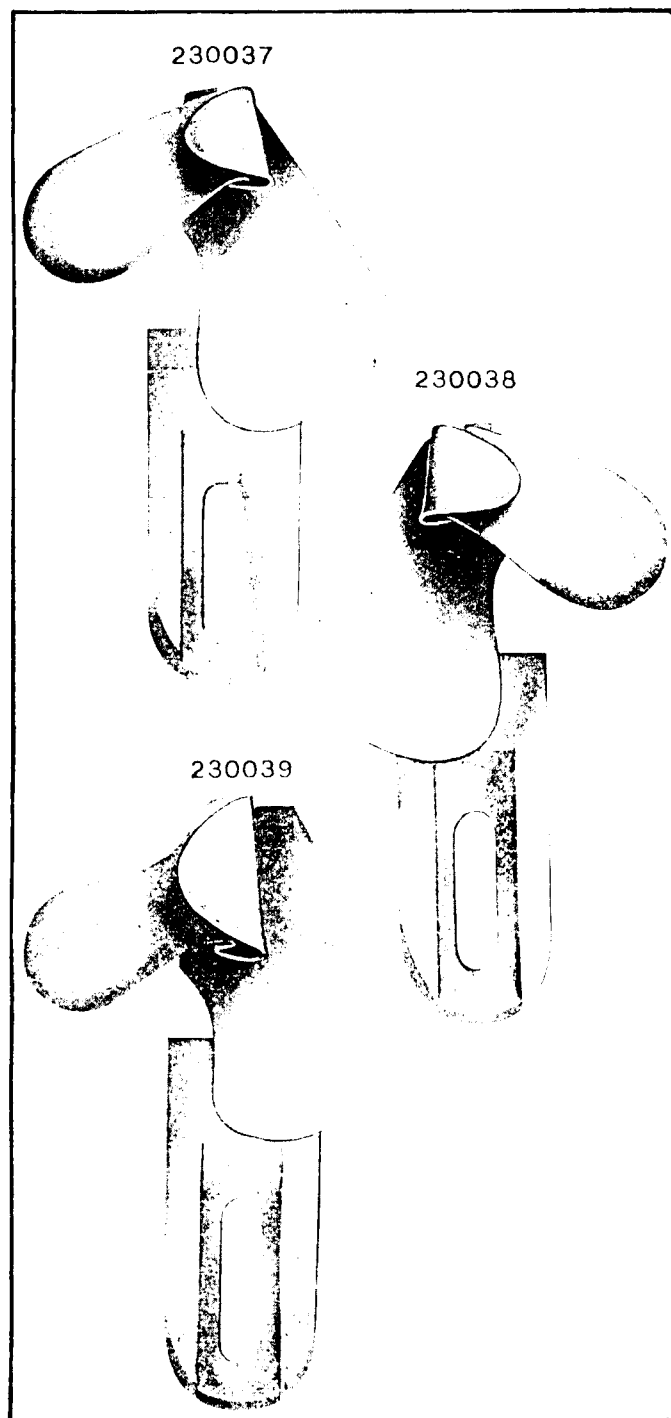


PLATE 11848 -FULL SIZE

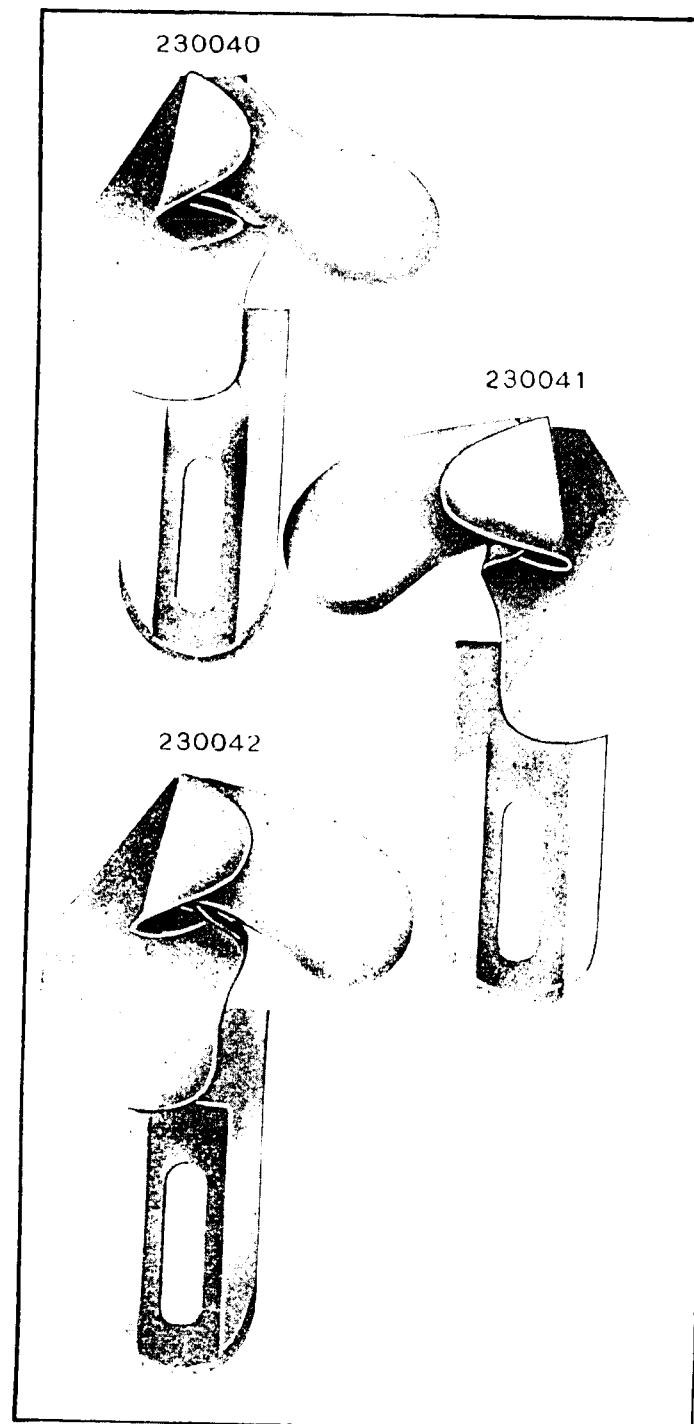
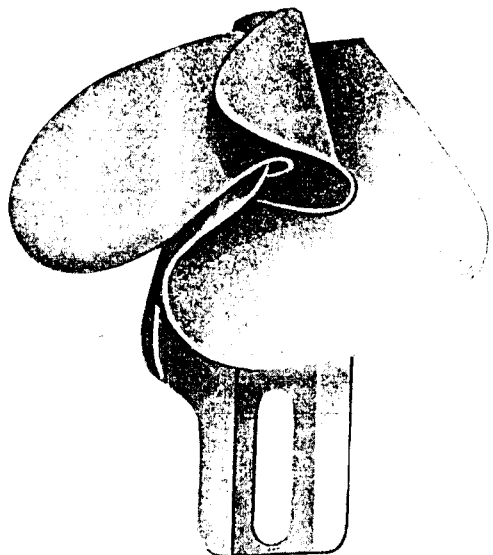


PLATE 11849 -FULL SIZE

230044



230045

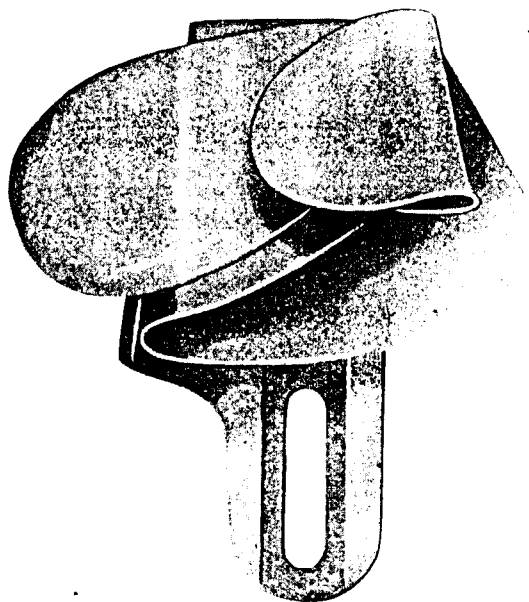
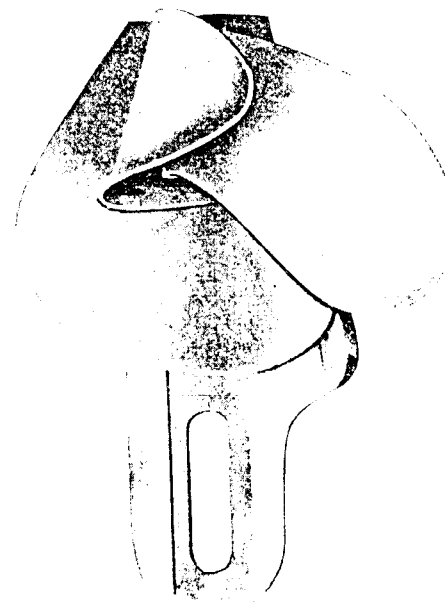


PLATE 11850 -FULL SIZE

230046



230049

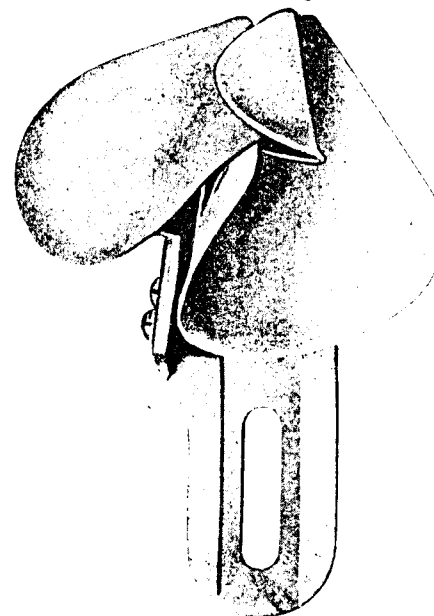
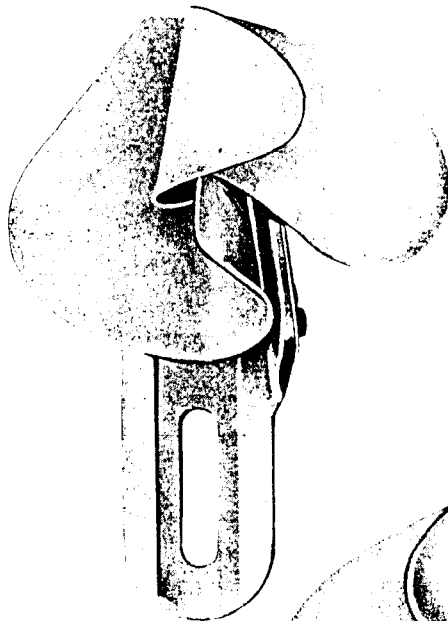


PLATE 11851 -FULL SIZE

230048



230047



230055

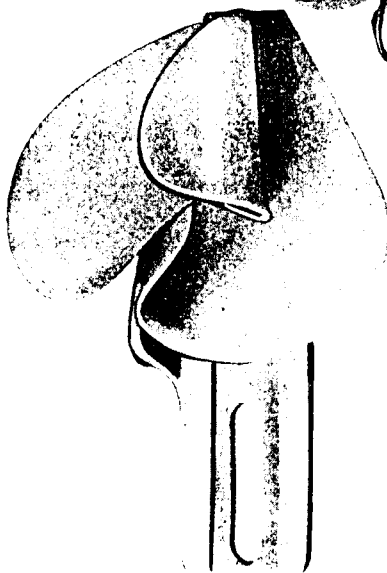
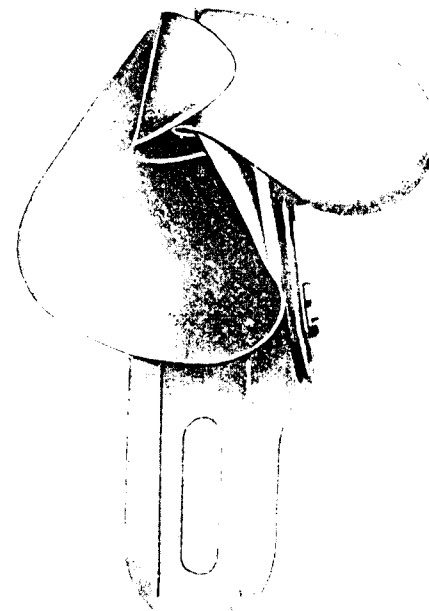


PLATE 11852 -FULL SIZE

230050



230056

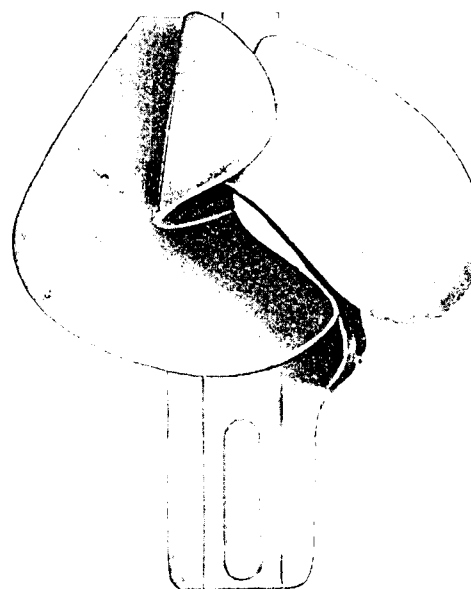


PLATE 12319 - FULL SIZE

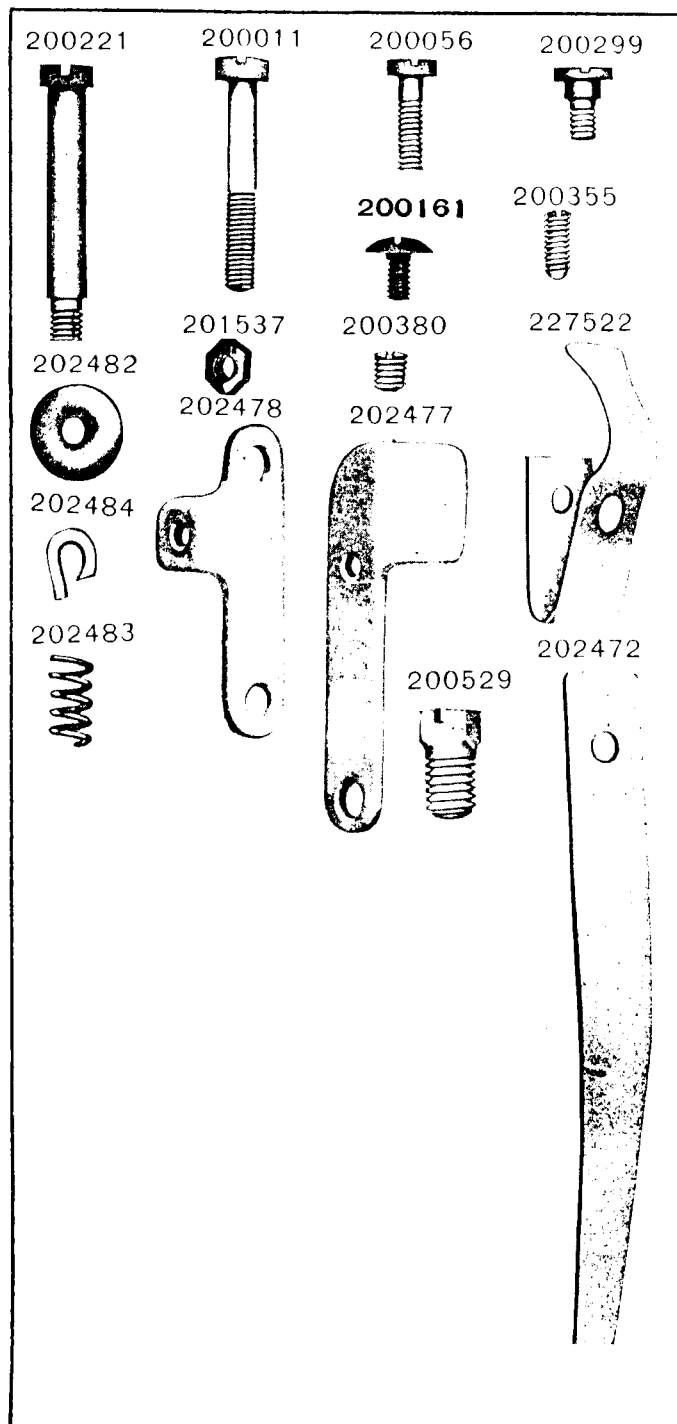


PLATE 12320 - ONE-HALF SIZE

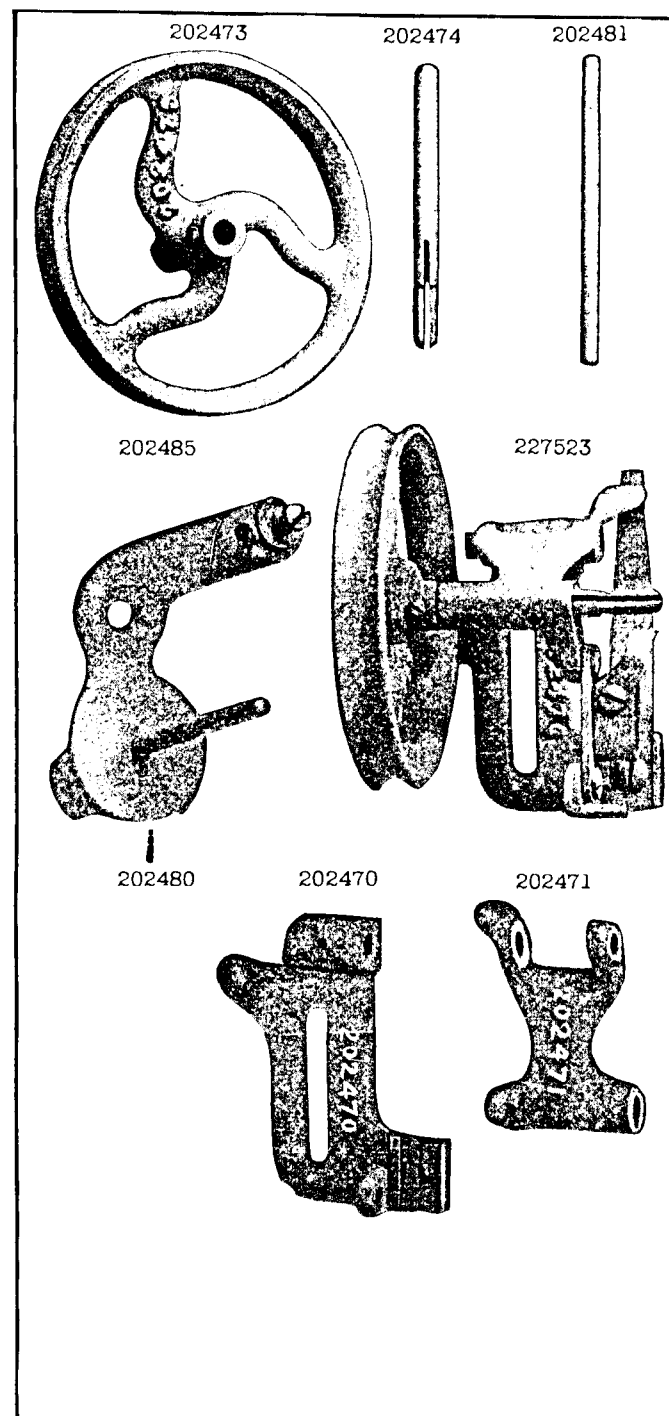


PLATE 12345—ONE-HALF SIZE

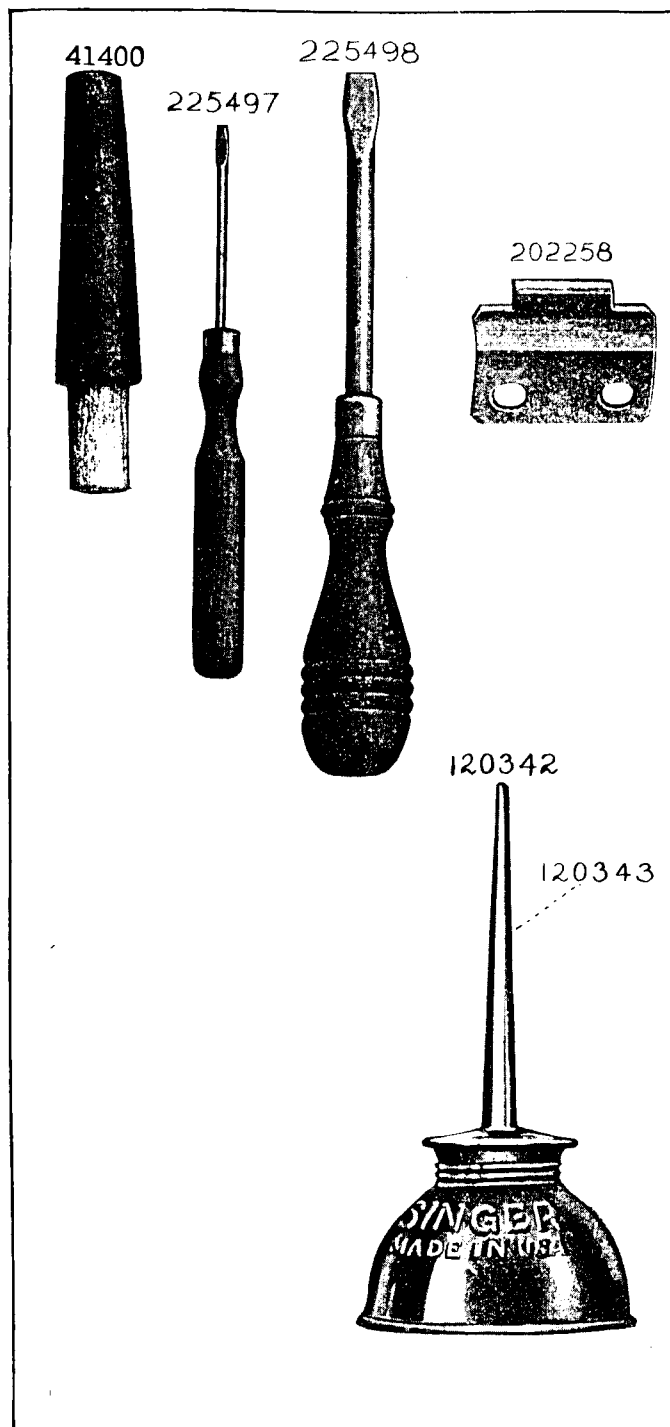
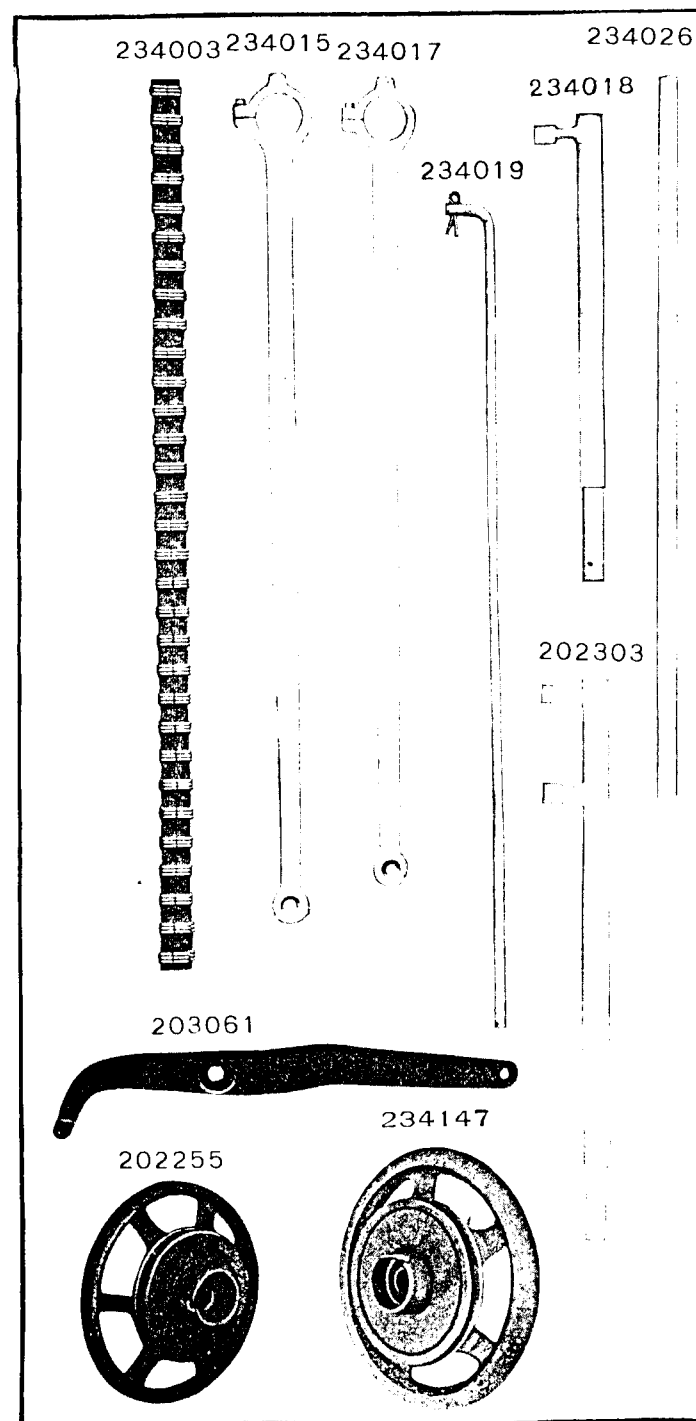
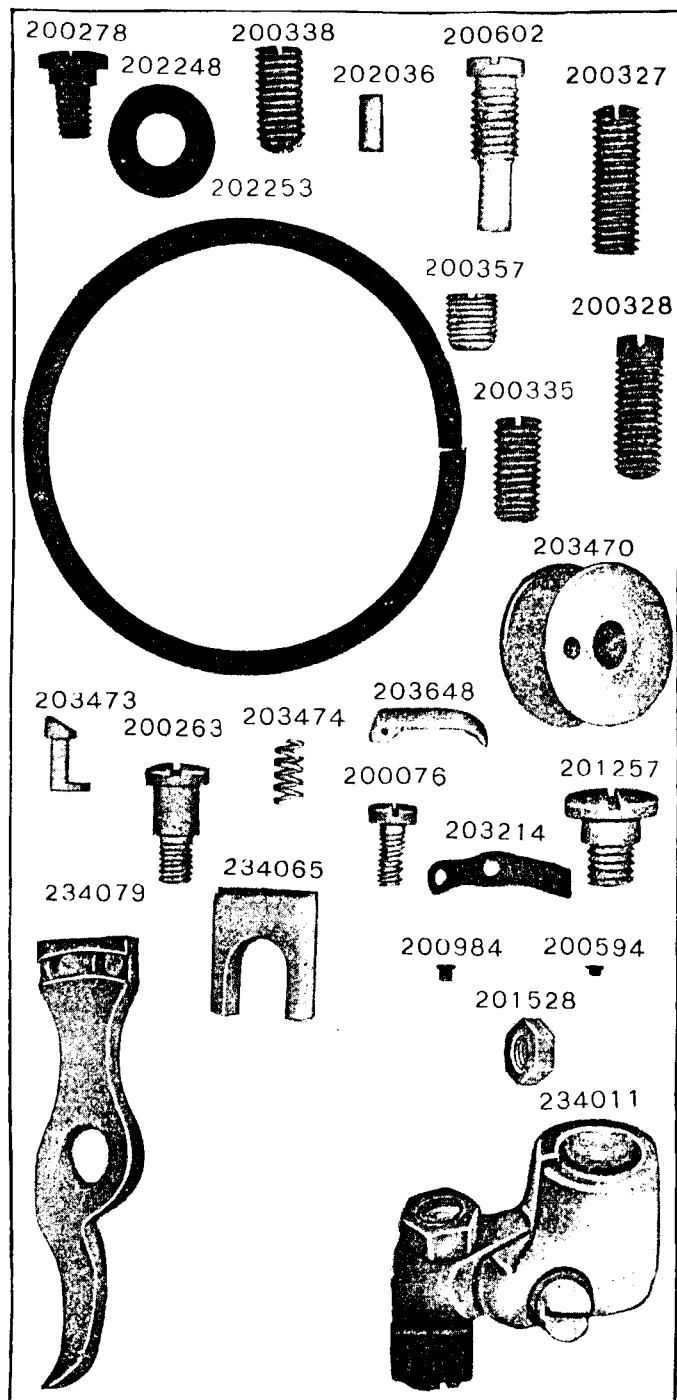


PLATE 13301—ONE-FOURTH SIZE



# PLATE 13302-FULL SIZE



# PLATE 13303-ONE-HALF SIZE

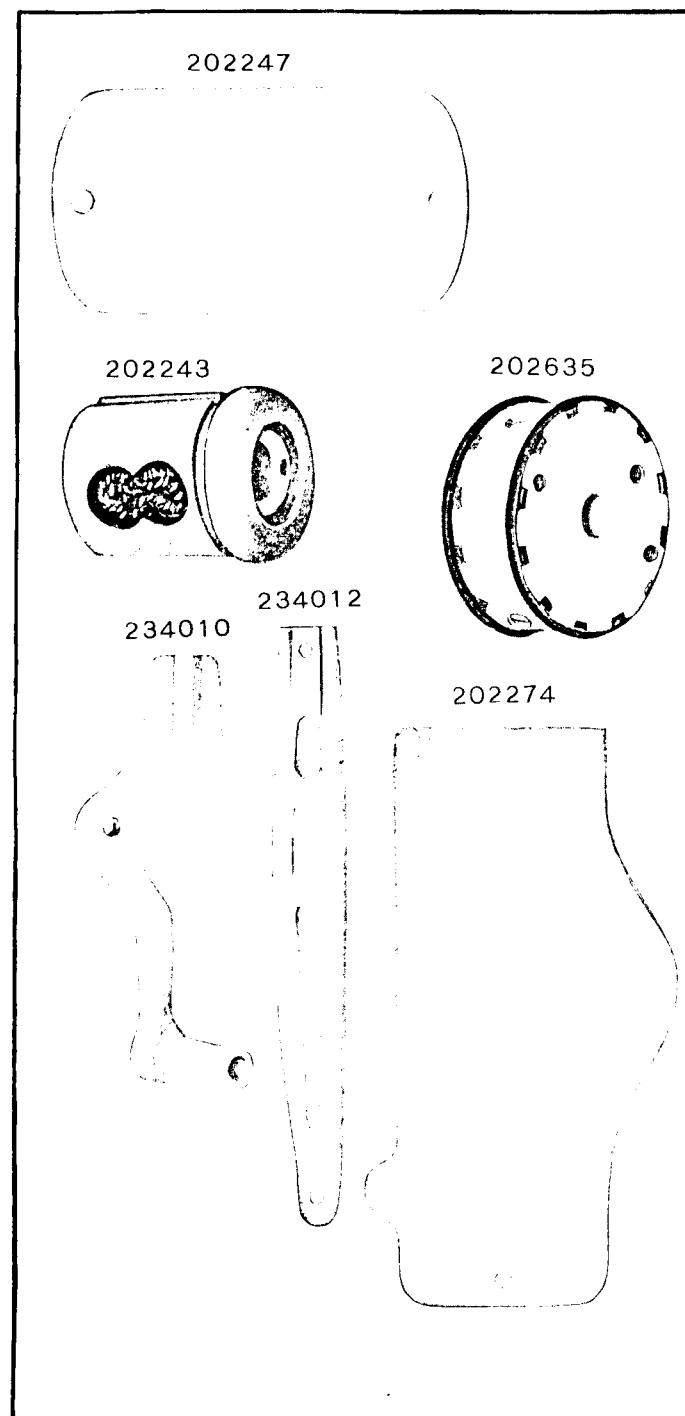


PLATE 13304-FULL SIZE

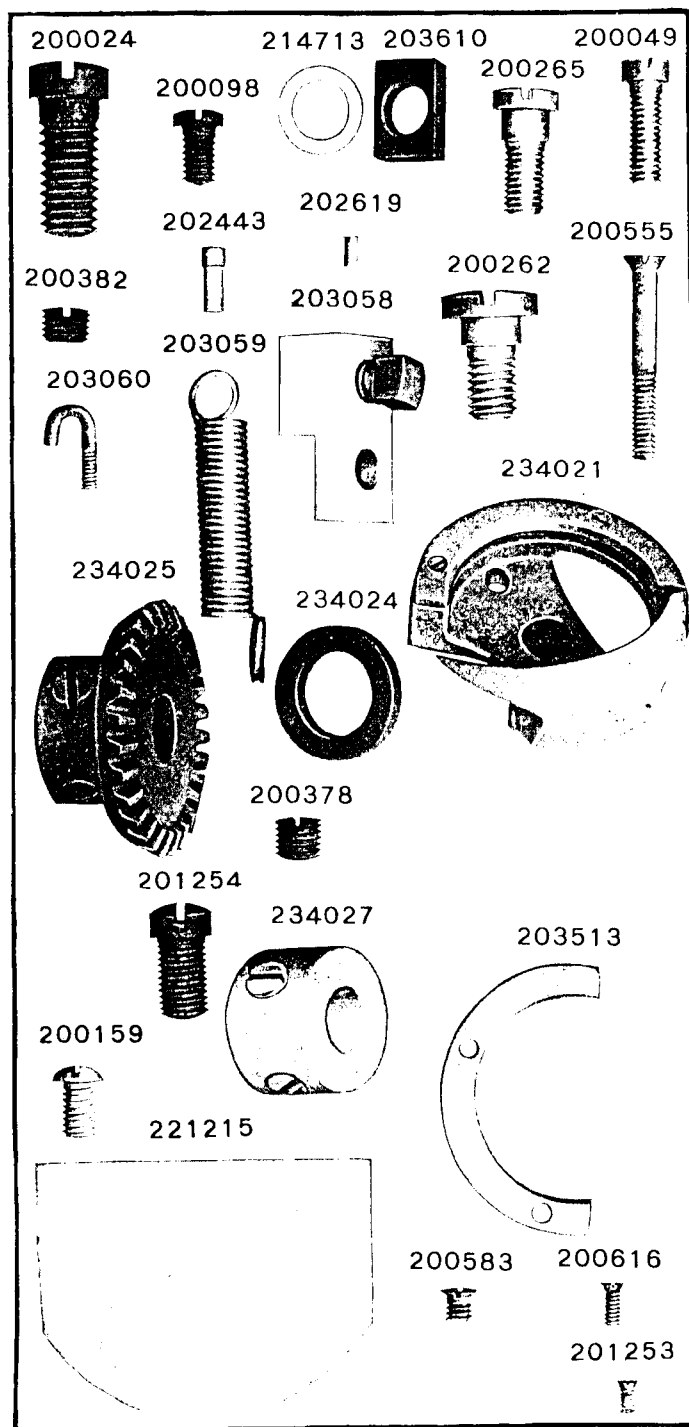


PLATE 13305-ONE-HALF SIZE

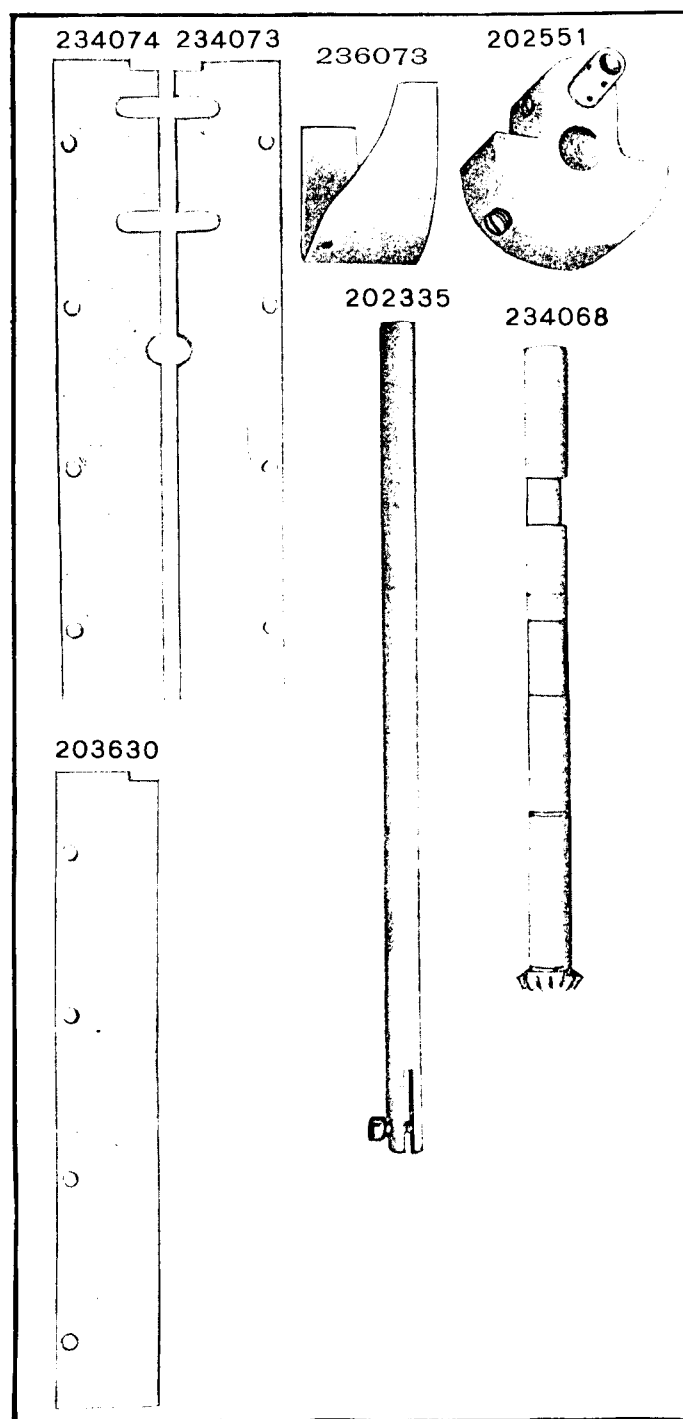


PLATE 13306-ONE-HALF SIZE

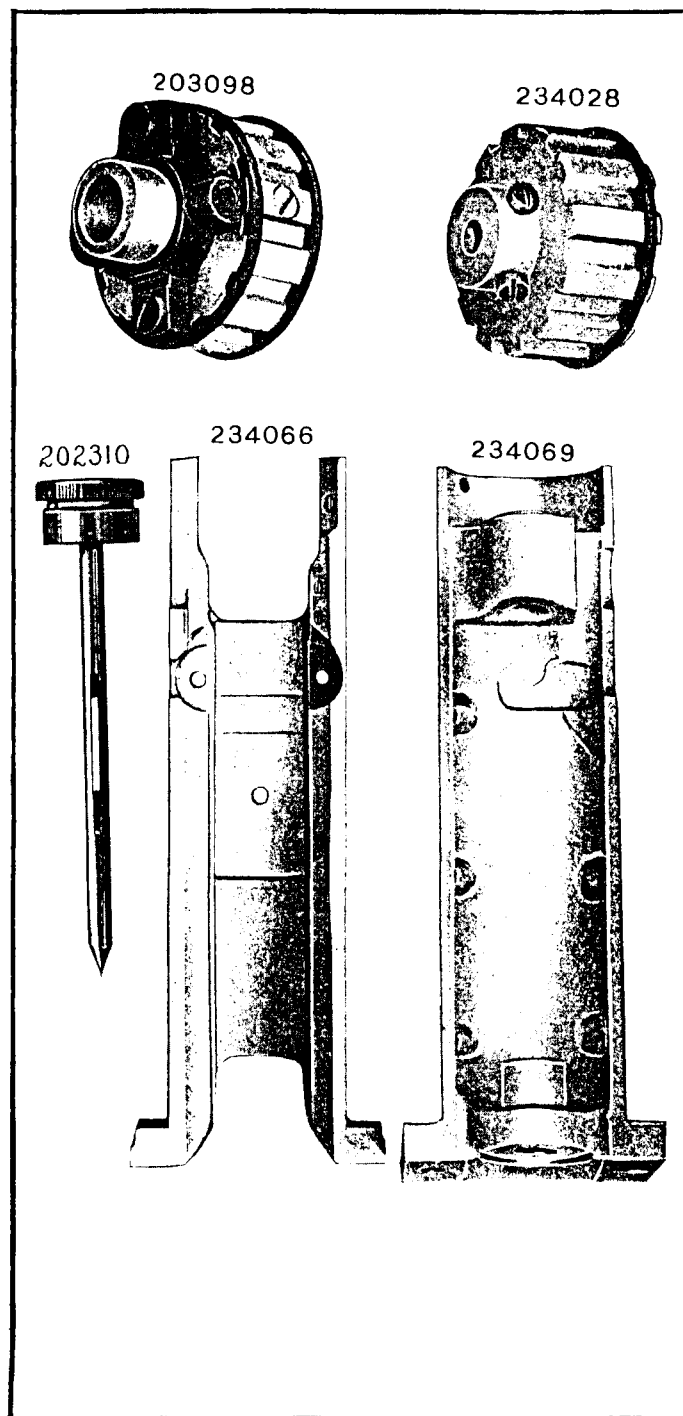


PLATE 13307-FULL SIZE

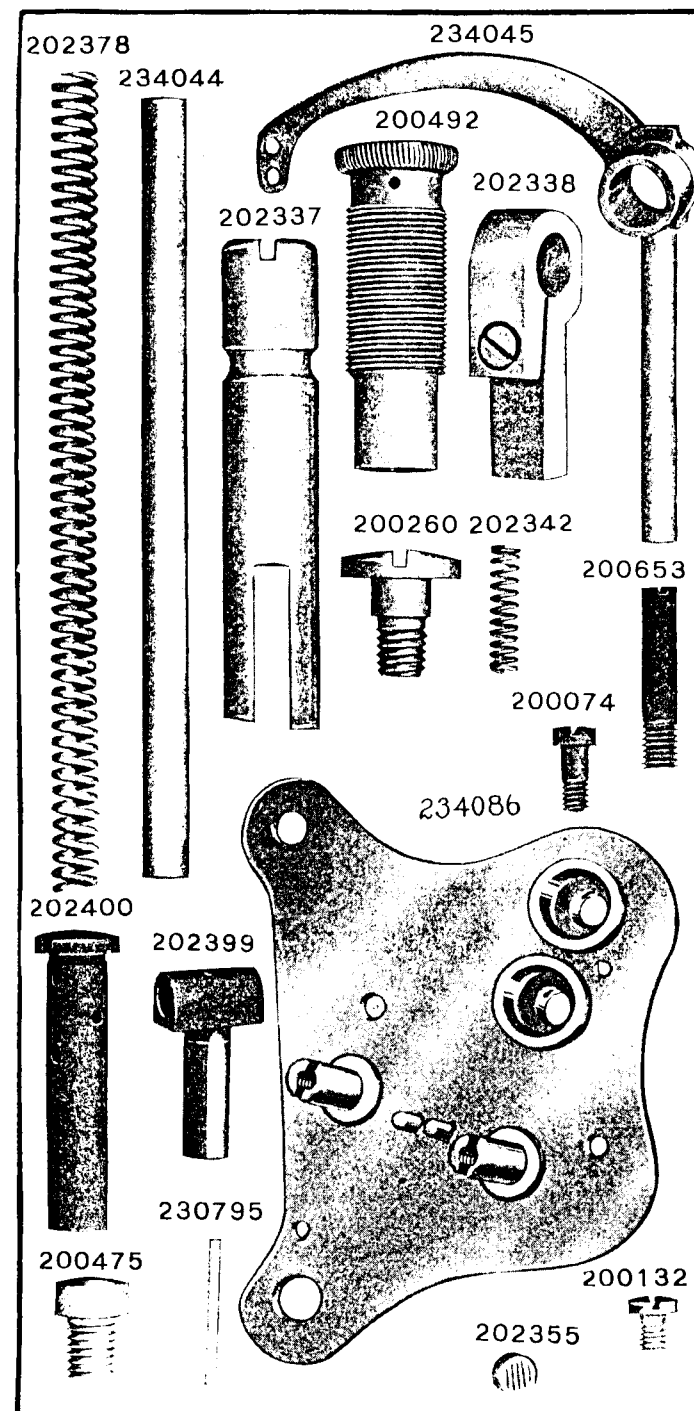


PLATE 13308-FULL SIZE

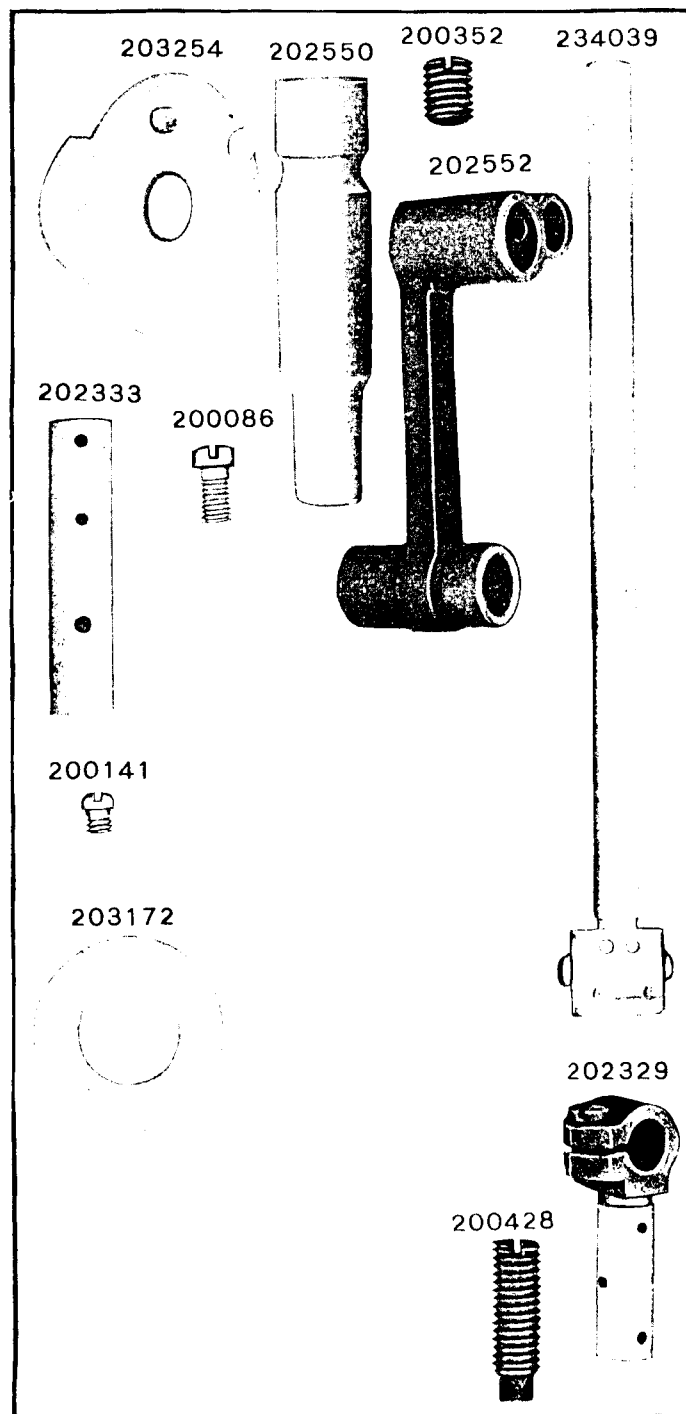


PLATE 13309-FULL SIZE

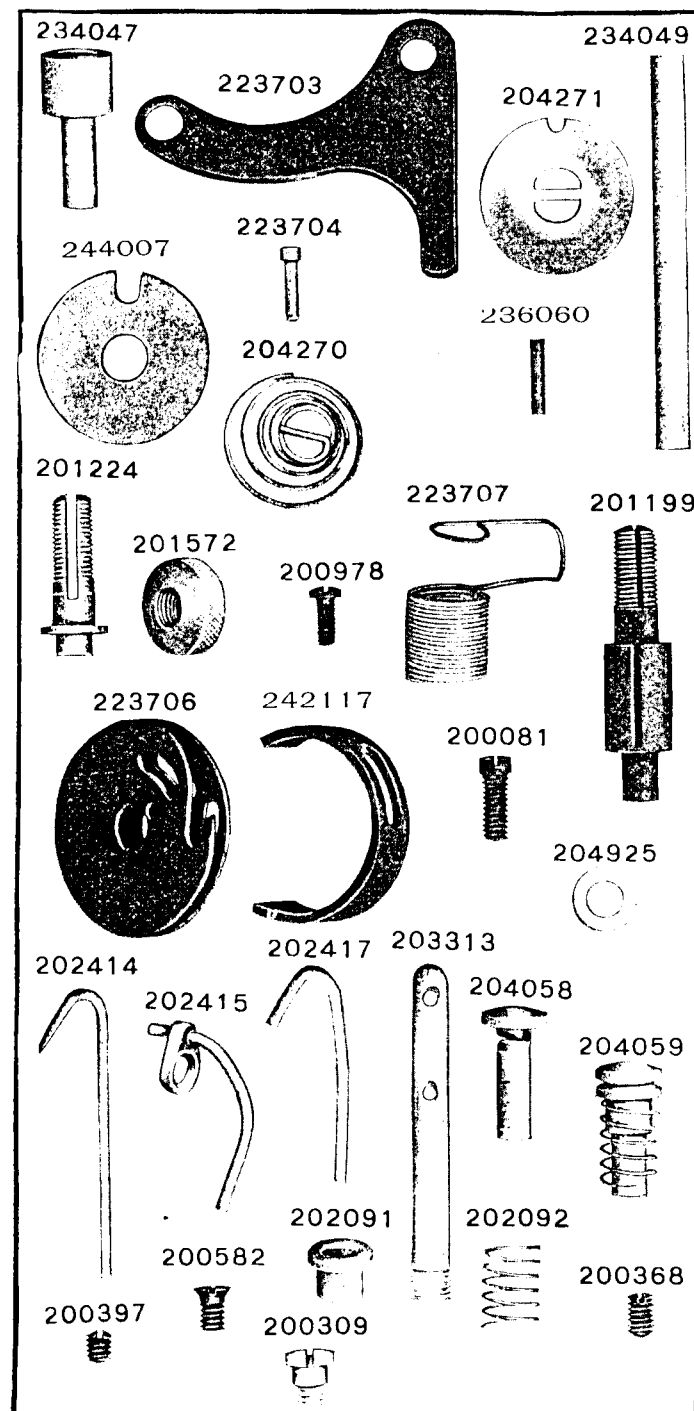
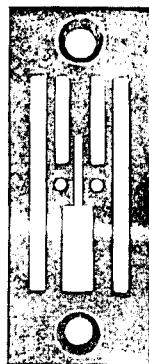
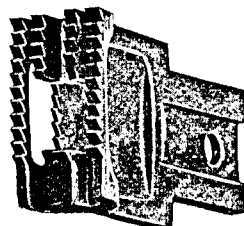


PLATE 13310-FULL SIZE

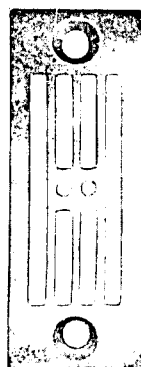
234100



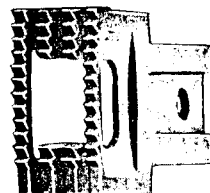
234050



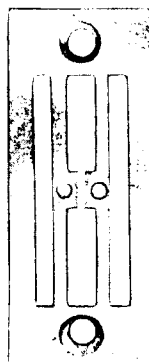
234101



234051



234102



212701

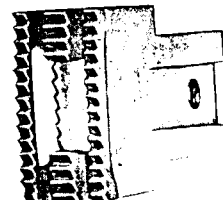
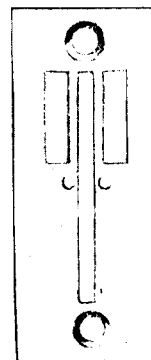
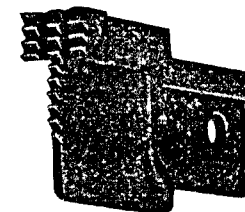


PLATE 13311-FULL SIZE

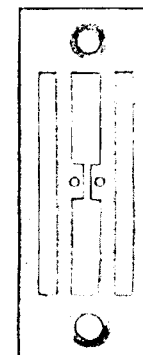
234103



212795



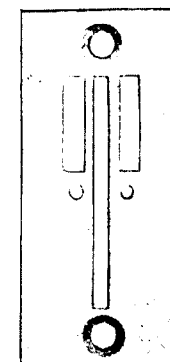
234104



212702



234105  
234119



221539

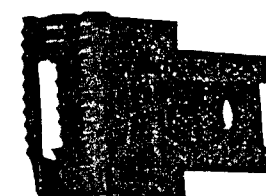
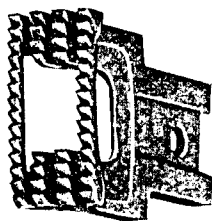


PLATE 13312-FULL SIZE

234106



234052



5.0

234107



234201

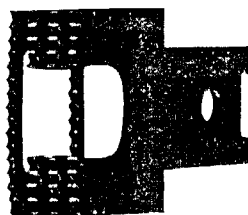
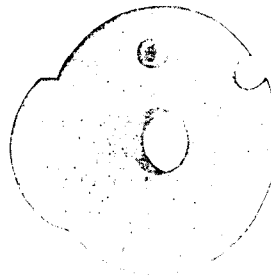
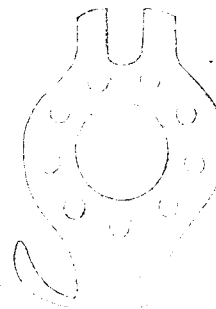


PLATE 13313-FULL SIZE

234036



234006



203578



234076



234077



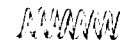
203211



203212



203213



234080

234081

2 4/8

234008



203208

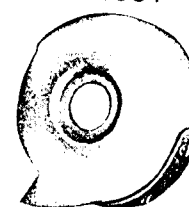
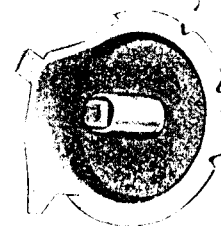


PLATE 13314—FULL SIZE

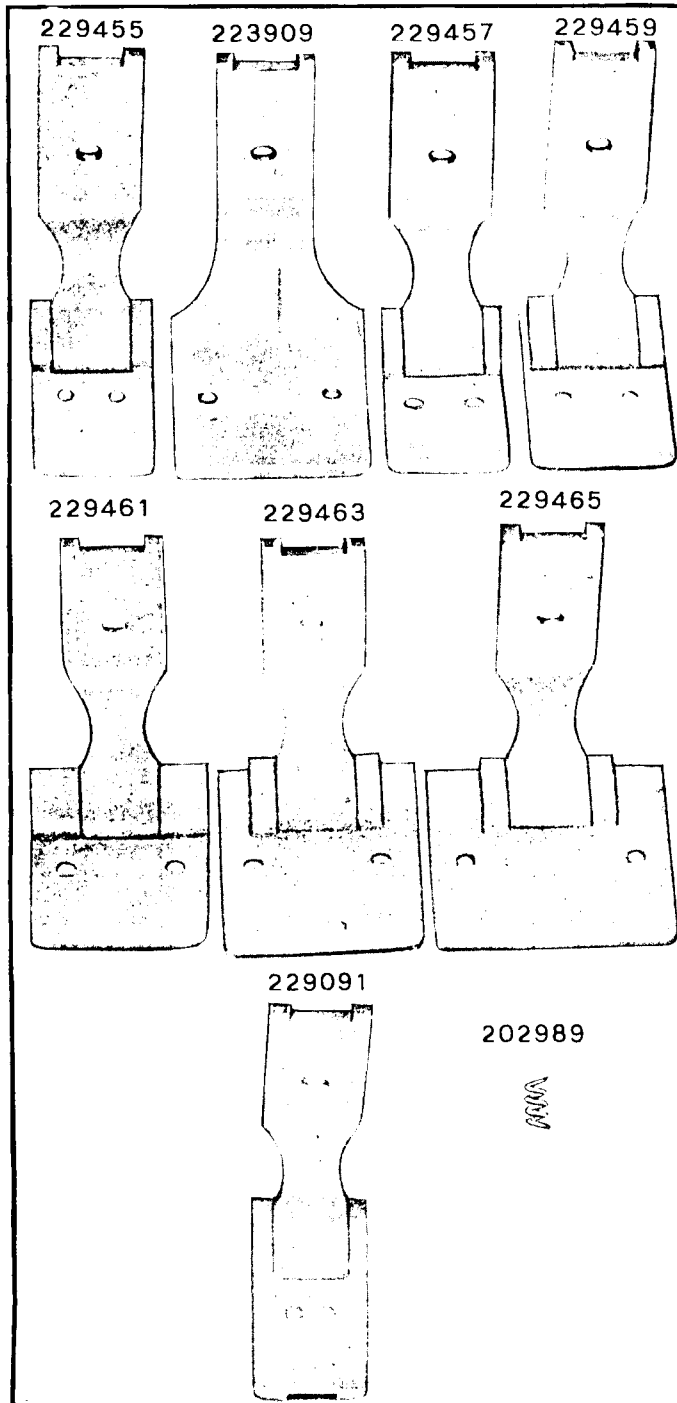


PLATE 13315—ONE-HALF SIZE

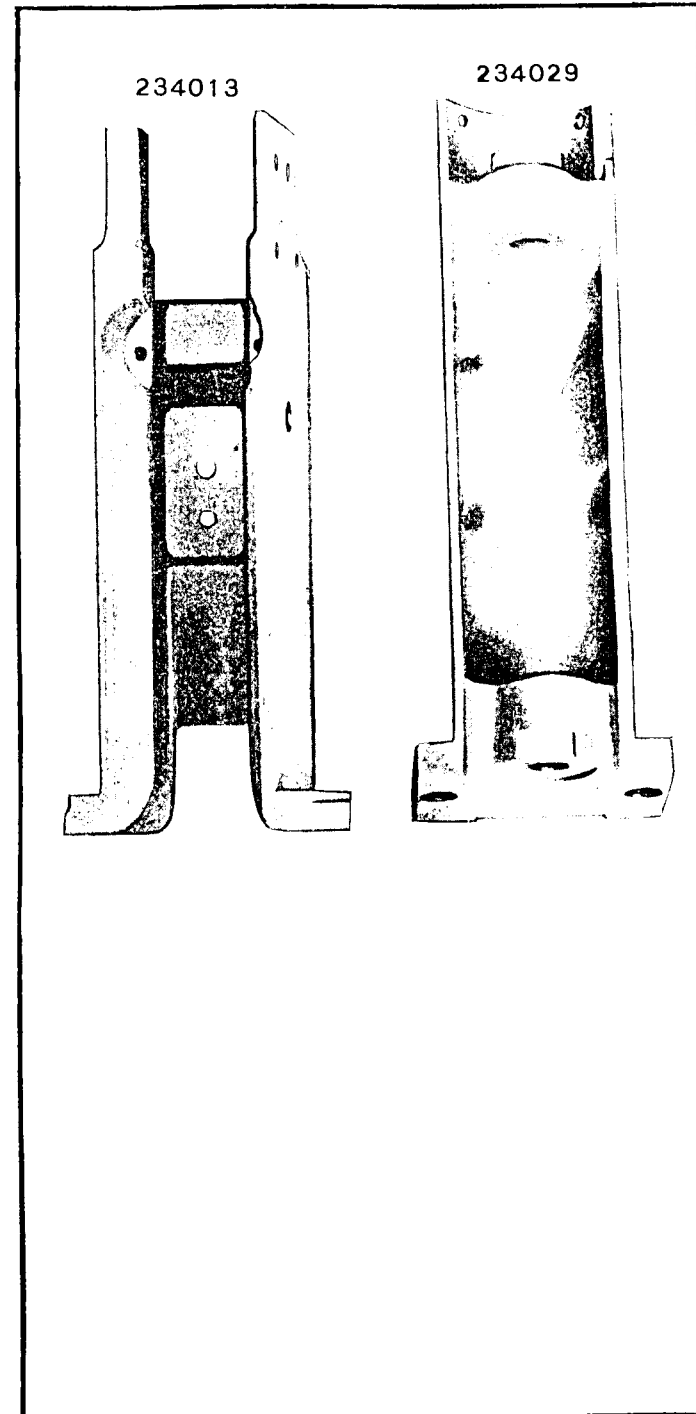


PLATE 13316—ONE-HALF SIZE

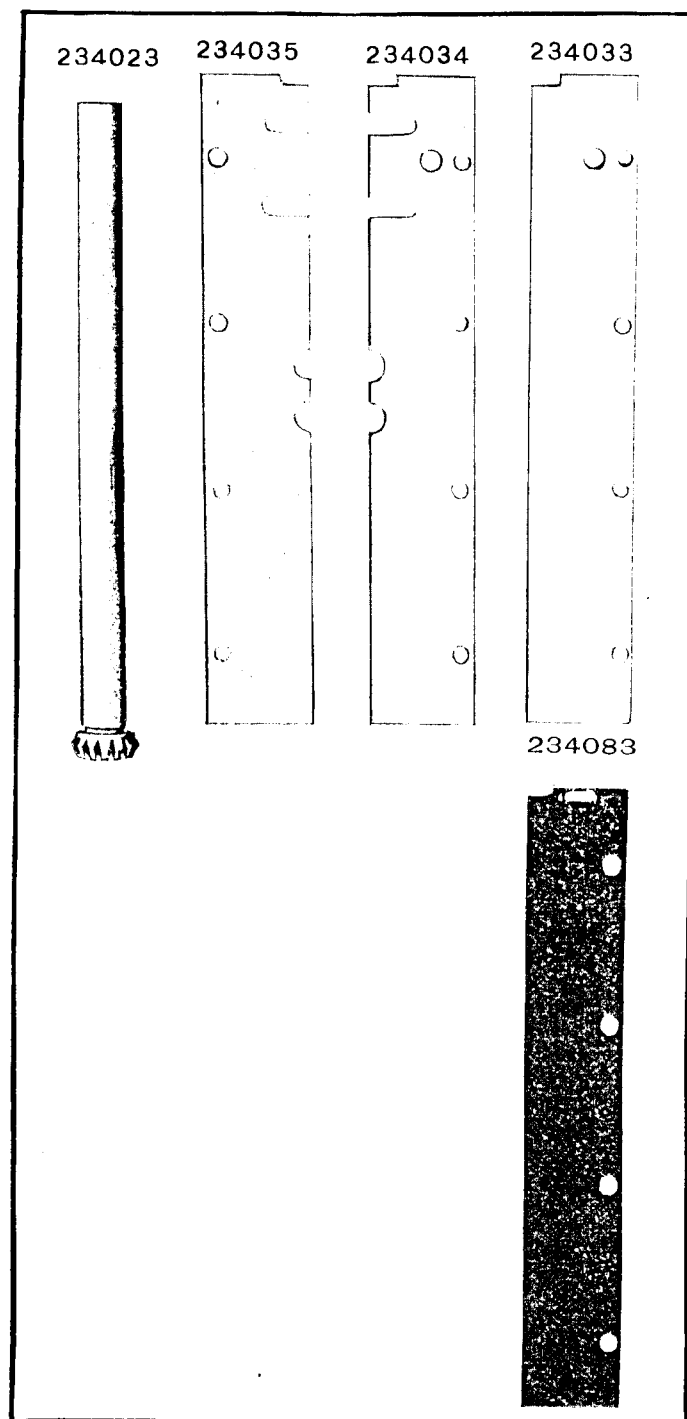


PLATE 13317—FULL SIZE

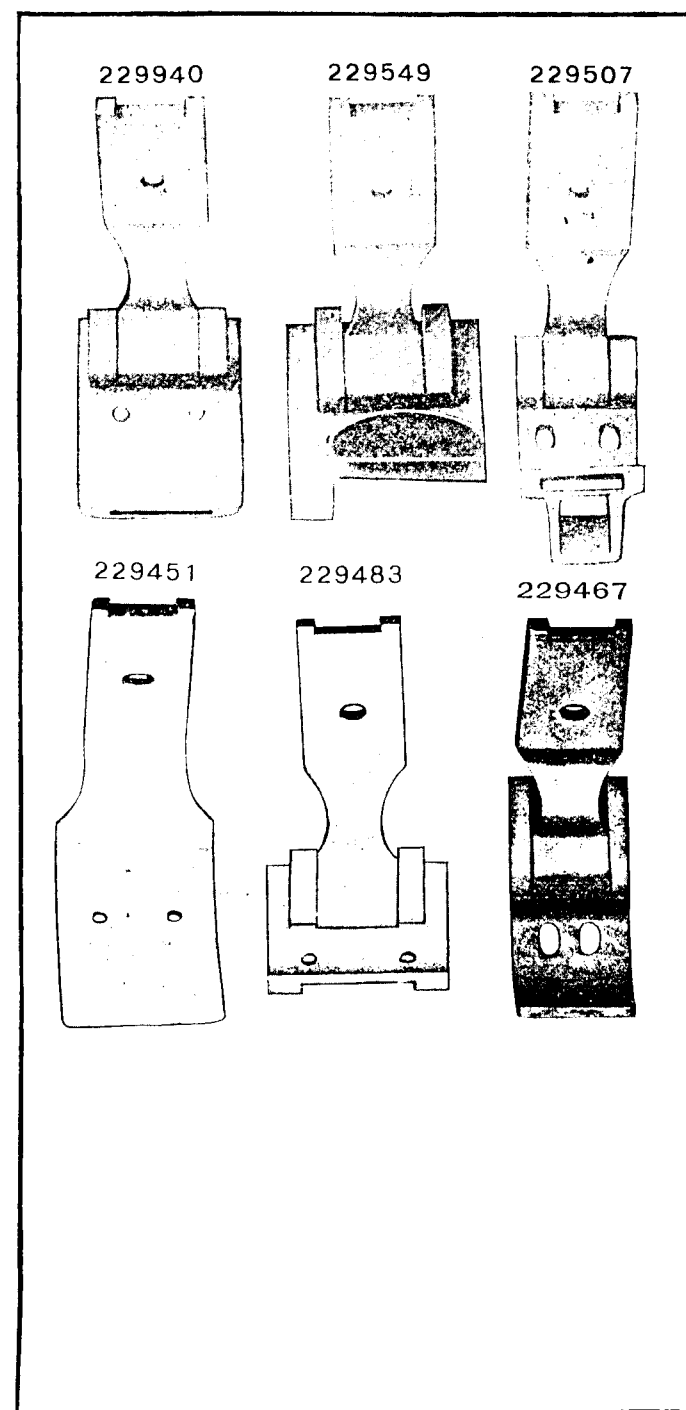
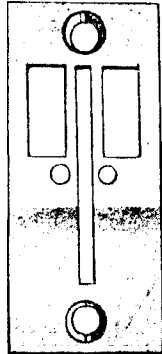
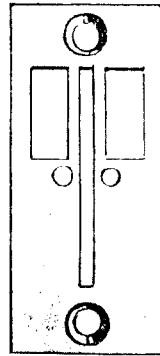


PLATE 13318-FULL SIZE

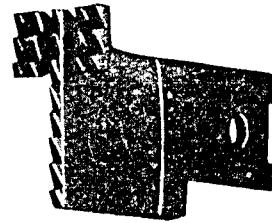
234108  
234110



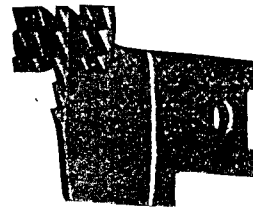
234111  
234152



212720



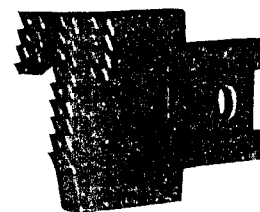
212721



212724



212725



234109



234112  
234120

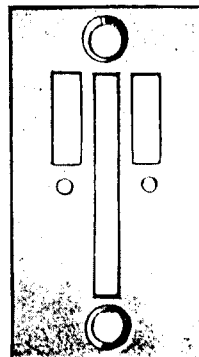
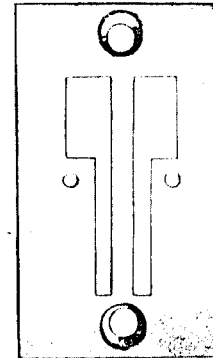
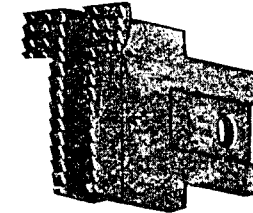


PLATE 13319-FULL SIZE

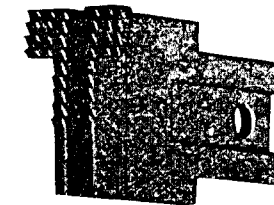
234113  
234156



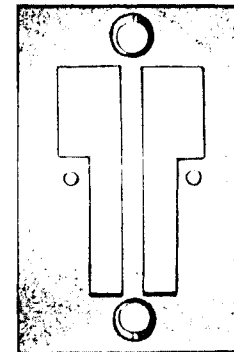
212731



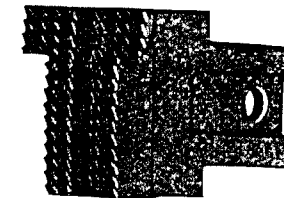
212732



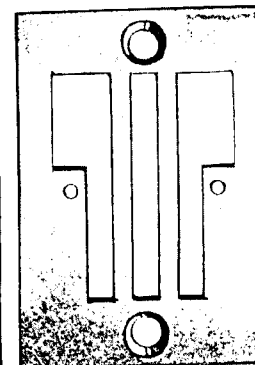
234114  
234151  
234154



212734



234115  
234157



212737

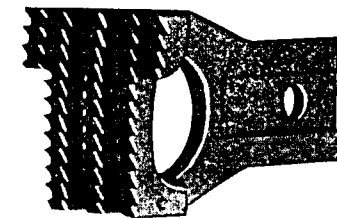
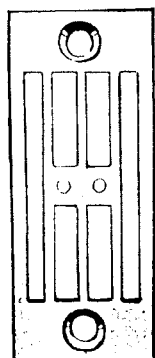
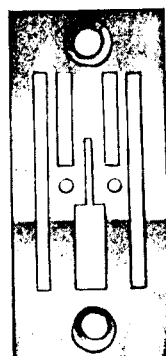


PLATE 13320-FULL SIZE

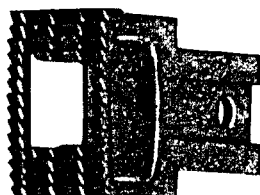
234117



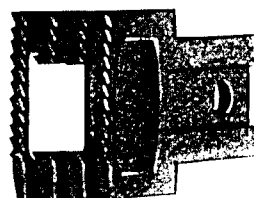
234118



212692



212673



234053

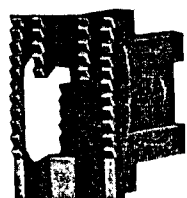
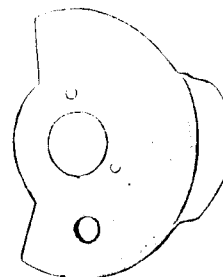
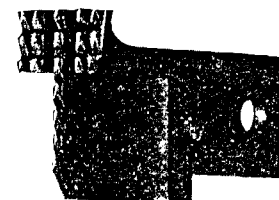


PLATE 13321-FULL SIZE

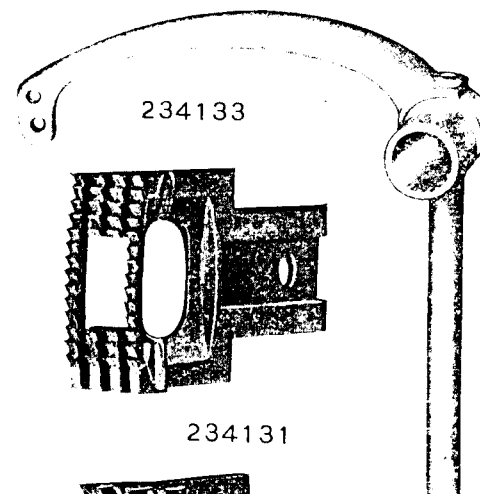
234141



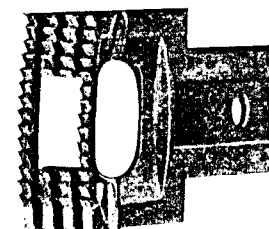
234130



234144



234133



234131

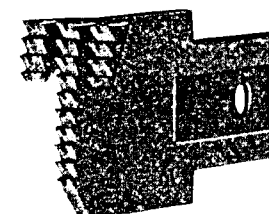


PLATE 13322-ONE-HALF SIZE

234146



PLATE 13332-FULL SIZE

202407



13710



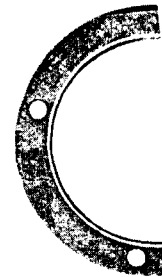
210554



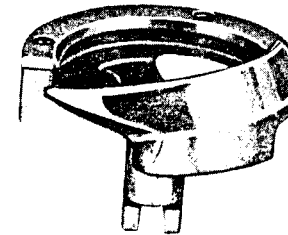
200396



203525



203512



204235



10554

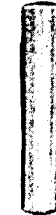


PLATE 13341—FULL SIZE

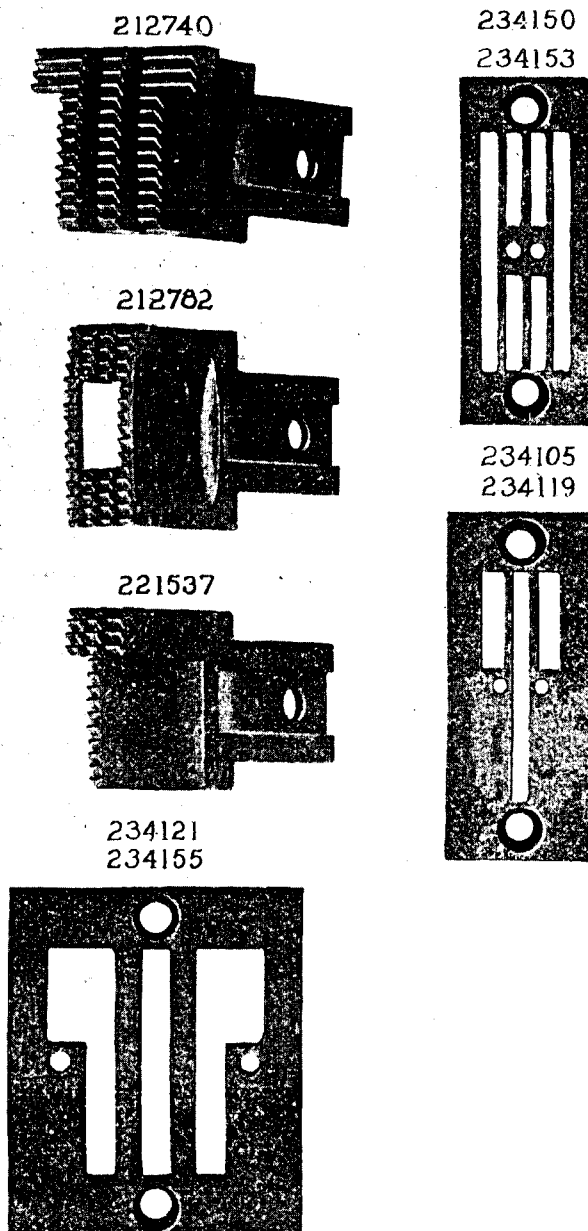
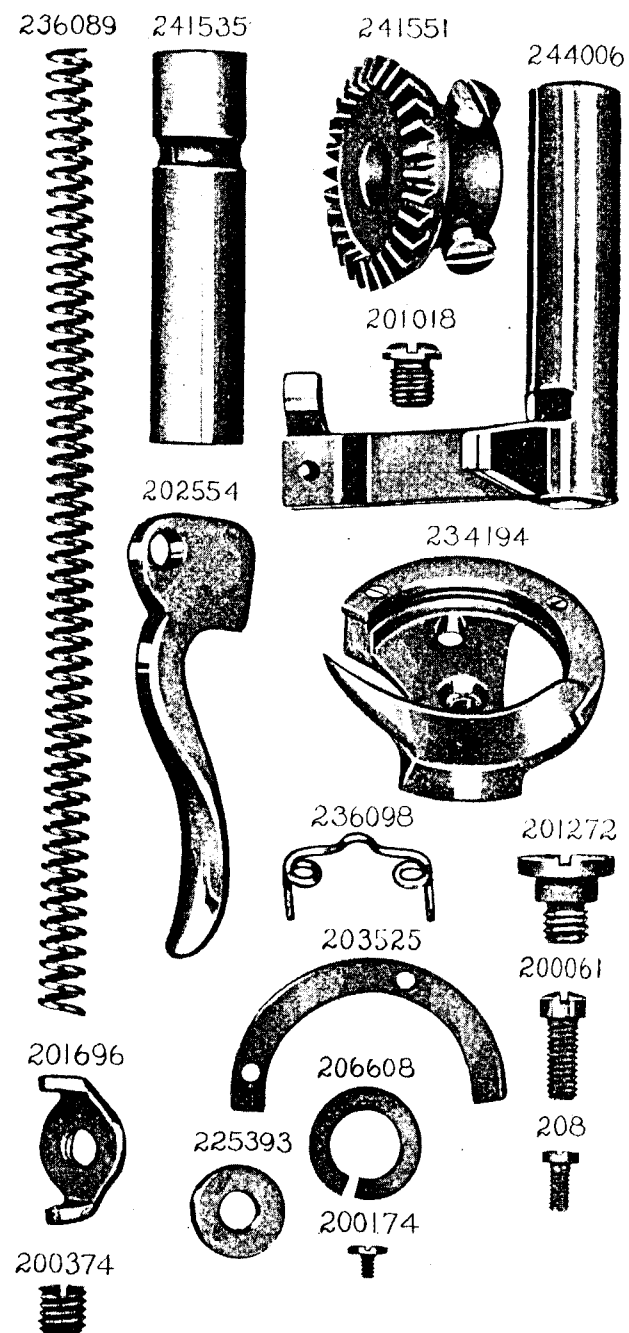


PLATE 13346—FULL SIZE

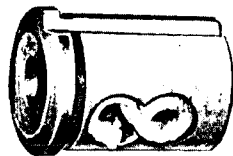
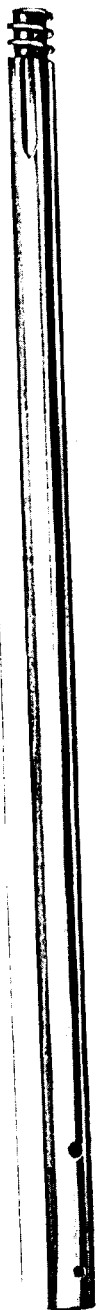


# PLATE 13347—ONE-HALF SIZE

202249

234088

207080



## PLATE 14031—FULL SIZE

229477

229477

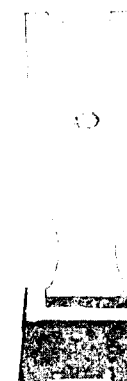


229479

229479

229471

229471



229473

229473

229481

229481



PLATE 14033—FULL SIZE

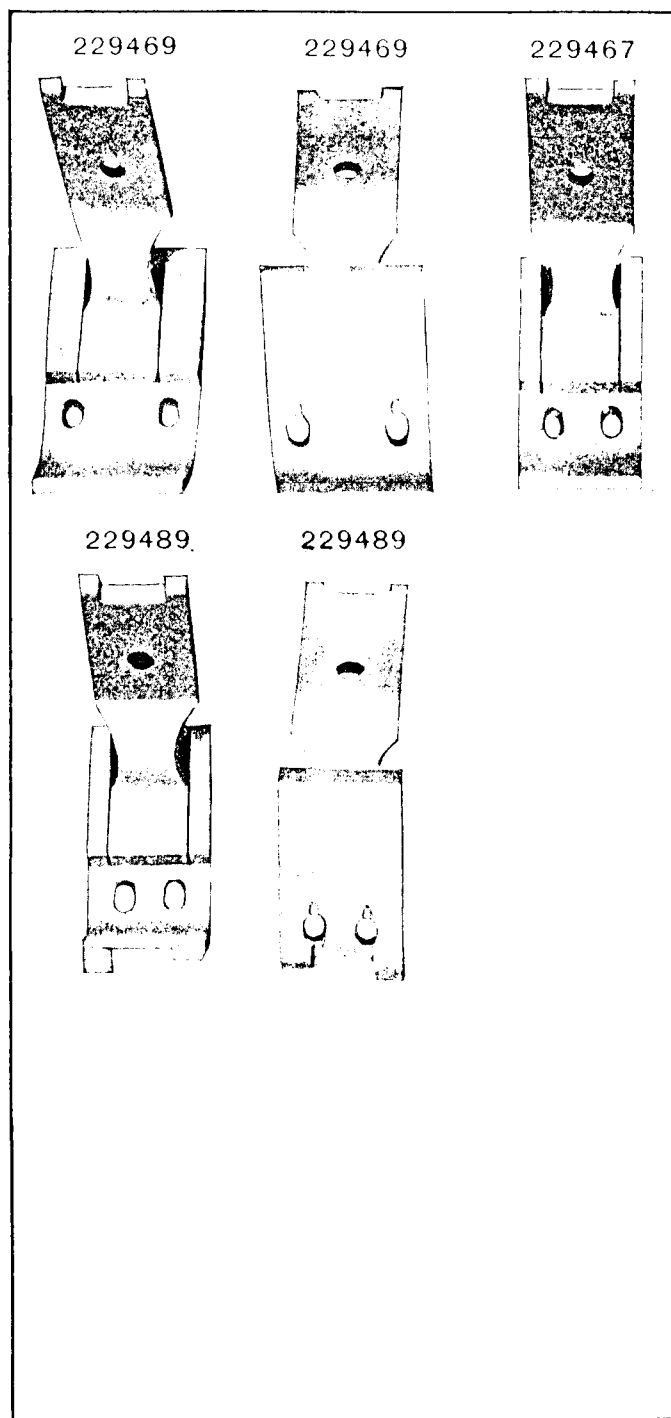


PLATE 14083—ONE-SIXTH SIZE

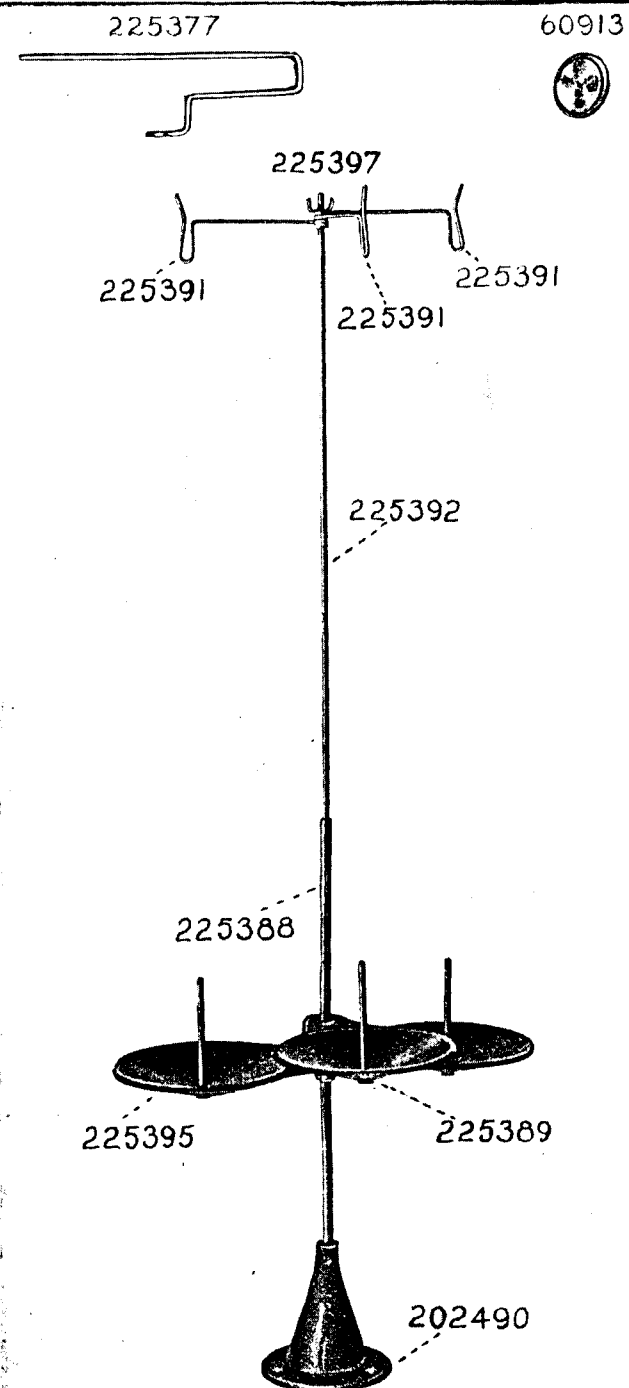
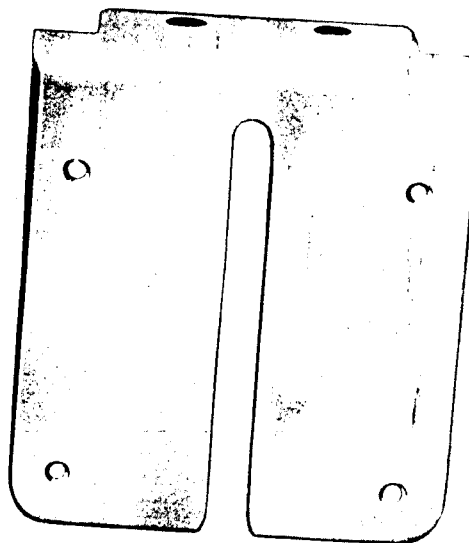


PLATE 14631 -FULL SIZE

200153



230356



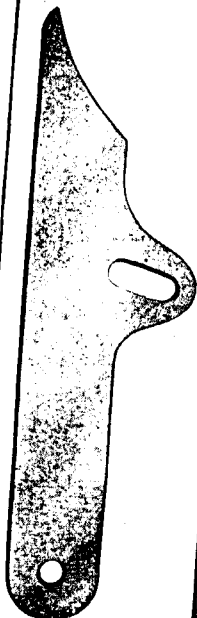
200169



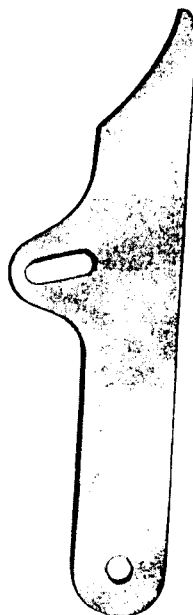
201561



2303



230358



230359

