

**SINGER**  
**47W120**

# LIST OF PARTS



**MACHINE No. 47w120**

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**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 case), 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.

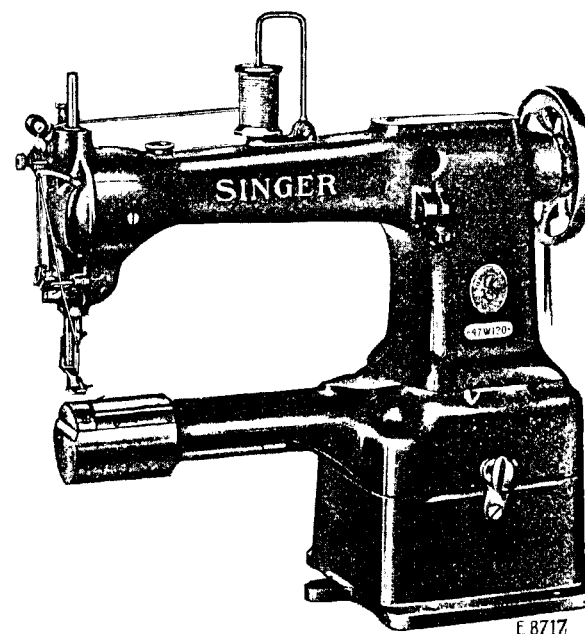
The figures in the second column refer only to the plate in which the illustration of the part is shown and are **NOT TO BE USED** in ordering.

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. 47w120

CYLINDER BED. NO FEED MOTION.

KNEE LIFTER

For General Darning

| No.     | Plate | Name                    |
|---------|-------|-------------------------|
| *213361 | —     | Arm .....               |
| 213144  | 15214 | " Cap .....             |
| 200278H | 12311 | " " Screw .....         |
| 202248  | 15213 | " " " Washer .....      |
| 204235  | 15213 | " Position Pin .....    |
| 200963E | 12311 | " Screw (3) .....       |
| 202005  | 15213 | " " Washer (3) .....    |
| 213341  | 15215 | " Shaft .....           |
| 204801  | 15214 | " " Bushing (back) with |
|         |       | 202260 .....            |

| No.                                                     | Plate | Name                                                                                   |
|---------------------------------------------------------|-------|----------------------------------------------------------------------------------------|
| 202260                                                  | —     | Arm Shaft Bushing (back) Oil Packing (wick) .....                                      |
| 200338c                                                 | 15213 | Arm Shaft Bushing (back) Set Screw .....                                               |
| 213299                                                  | 15214 | Arm Shaft Bushing (center) with 202260 .....                                           |
| 202260                                                  | —     | Arm Shaft Bushing (center) Oil Packing (wick) .....                                    |
| 200341c                                                 | 15213 | Arm Shaft Bushing (center) Set Screw .....                                             |
| 213781                                                  | 15214 | Arm Shaft Bushing (front) with 202036 and 202260 .....                                 |
| 202260                                                  | —     | Arm Shaft Bushing (front) Oil Packing (wick) .....                                     |
| 200502B                                                 | 15213 | Arm Shaft Bushing (front) Oil Packing Thumb Screw .....                                |
| 202036                                                  | 15213 | Arm Shaft Bushing (front) Position Pin .....                                           |
| 200352c                                                 | 15213 | Arm Shaft Bushing (front) Set Screw .....                                              |
| 204804                                                  | 15214 | Arm Shaft Connection with four 200054E (2) .....                                       |
| 200054E                                                 | 15213 | Arm Shaft Connection Screw .....                                                       |
| 204805                                                  | 15215 | Balance Wheel, 5½ in. diam. (belt groove 2¾ in. diam.), with 200328c and 200335c ..... |
| 200062H                                                 | 12311 | Balance Wheel Adjusting Screw ..                                                       |
| 200328c                                                 | 12311 | " " Position Screw .....                                                               |
| 200335c                                                 | 12311 | " " Set Screw .....                                                                    |
| *213377                                                 | —     | Bed (cylinder) with 201461c, 213314, 213380 and two 200516E .....                      |
| *213786                                                 | —     | Bed (cylinder) Cap (use 221188 for repairs) .....                                      |
| 221188                                                  | 15214 | Bed (cylinder) Cap with two each 200100D and 222404 .....                              |
| 222404                                                  | 15213 | Bed (cylinder) Cap Position Pin ..                                                     |
| 200100D                                                 | 15213 | " " " Screw .....                                                                      |
| 200574D                                                 | 15213 | " " " " (2) .....                                                                      |
| 213787                                                  | —     | " " End Cover .....                                                                    |
| 213353                                                  | —     | " " Base (6 in. high) .....                                                            |
| 213890                                                  | —     | " " (4 in. high) .....                                                                 |
| Note. High Bed Base 213353 furnished only when ordered. |       |                                                                                        |
| 203184                                                  | 15213 | Bed Clamp .....                                                                        |
| 200262H                                                 | 15213 | " " Hinge Screw .....                                                                  |
| 202622                                                  | 15213 | " " Packing Washer .....                                                               |
| 200728B                                                 | 15213 | " " Thumb Screw .....                                                                  |
| 203185                                                  | 15213 | " " Washer .....                                                                       |

| No.     | Plate | Name                                                                                                                    |
|---------|-------|-------------------------------------------------------------------------------------------------------------------------|
| 202618  | 15215 | Bed Hinge .....                                                                                                         |
| 200030H | 15213 | " " Screw (6) .....                                                                                                     |
| 213338  | 15214 | " Slide (back) .....                                                                                                    |
| 213685  | 15213 | " " Clamp Plate .....                                                                                                   |
| 213686  | 15213 | " " " " .....                                                                                                           |
| 200582H | 15213 | " " " " Screw (4) ..                                                                                                    |
| 203208  | 11228 | Bobbin .....                                                                                                            |
| 203210  | 11228 | " Case Base with 202056, 203211 to 203213 and 203216 .....                                                              |
| 203211  | 15213 | Bobbin Case Base Latch .....                                                                                            |
| *202056 | —     | " " " " Pin .....                                                                                                       |
| 203212  | 15213 | " " " " Plunger ..                                                                                                      |
| 203213  | 15213 | " " " " Spring ..                                                                                                       |
| 203209  | 11228 | " " Cap with 200984c, 203214, 203215 and two 200594c ..                                                                 |
| 203214  | 11228 | Bobbin Case Tension Spring .....                                                                                        |
| 200984c | 11228 | " " " " Regulating Screw .....                                                                                          |
| 200594c | 11228 | Bobbin Case Tension Spring Screw                                                                                        |
| 203215  | 11228 | " " Thread Guide .....                                                                                                  |
| 200594c | 11228 | " " " " Screw ..                                                                                                        |
| 203216  | 11228 | " " Washer (cloth) .....                                                                                                |
| 203217  | 11228 | Bobbin Case complete, Nos. 203209 and 203210 .....                                                                      |
| 204184  | 15215 | Face Plate with 200355H, 200368H, 200688c, 202090, 204185, 204281 and two 200397H .....                                 |
| 200053c | 12311 | Face Plate Screw .....                                                                                                  |
| 204185  | 15213 | " " Thread Guide .....                                                                                                  |
| 200397H | 12309 | " " " " Set Screw                                                                                                       |
| 204186  | —     | Face Plate complete, Nos. 200135E, 200309E, 200319c, 200577H, 204059, 204184, 204267, 204272 and 204277 to 204280 ..... |
| *203239 | —     | Hook (sewing) .....                                                                                                     |
| 203240  | 11228 | " 203239 with 201253F, 201376F and 203251 .....                                                                         |
| 203290  | 11228 | Hook and Bobbin Case complete, Nos. 203217 and 203240 .....                                                             |
| 203549  | 15213 | Hook Bevel Gear Socket, 18 teeth                                                                                        |
| 200556H | 15213 | " " " " Screw ...                                                                                                       |
| 213319  | 15213 | " " Pinion with two 200386c                                                                                             |
| 200386c | 15217 | " " " Set Screw .....                                                                                                   |
| 221172  | 15215 | " Driving Shaft .....                                                                                                   |
| 213314  | 15214 | " " " Bearing .....                                                                                                     |
| 202126  | 15217 | " " " " Position Pin (2) .....                                                                                          |

| No.     | Plate | Name                                                                                      |
|---------|-------|-------------------------------------------------------------------------------------------|
| 200516E | 12311 | Hook Driving Shaft Bearing Screw                                                          |
| 213380  | 15214 | " " " Bushing .....                                                                       |
| 201461c | 15217 | " " " " Position<br>Screw .....                                                           |
| 204246  | 15217 | Hook Driving Shaft Collar (back)<br>with two 200383c .....                                |
| 200383c | 15217 | Hook Driving Shaft Collar (back)<br>Set Screw .....                                       |
| 203244  | 15217 | Hook Driving Shaft Collar (front)<br>with two 200393c .....                               |
| 200393c | 15217 | Hook Driving Shaft Collar (front)<br>Set Screw .....                                      |
| 203251  | 11228 | Hook Gib .....                                                                            |
| 201376F | 15217 | " " Hinge Screw .....                                                                     |
| 201253F | 15217 | " " Screw .....                                                                           |
| 203552  | 15216 | " Saddle (right) with 202299 ..                                                           |
| 202299  | —     | " " Oil Packing (wick) ...                                                                |
| 200541E | 15217 | " " Screw (2) .....                                                                       |
| 225837  | 15217 | " " " Washer (2) .....                                                                    |
| 203254  | 11228 | " Washer .....                                                                            |
| 203554  | —     | Hook Saddle (right) complete, Nos.<br>200556H, 203254, 203290, 203549<br>and 203552 ..... |
| 202781  | 15215 | Knee Lifter Lifting Lever .....                                                           |
| 227306  | —     | " " " " 202781<br>with 200262H .....                                                      |
| 200262H | 15213 | Knee Lifter Lifting Lever Hinge<br>Screw .....                                            |
| 221145  | 15216 | Knee Lifter Lifting Lever Position<br>Spring (right) .....                                |
| 200835D | 15217 | Knee Lifter Lifting Lever Position<br>Spring Screw .....                                  |
| 208613  | 15216 | Needle Bar (hollow) .....                                                                 |
| 204247  | —     | " " 208613 with 200125F,<br>200175D and 204250 .....                                      |
| 204248  | 15217 | Needle Bar Connecting Link .....                                                          |
| 200658c | 15217 | " " " " Hinge<br>Screw Stud .....                                                         |
| 201519E | 15217 | Needle Bar Connecting Link Hinge<br>Screw Stud Nut .....                                  |
| 204249  | 15217 | Needle Bar Connecting Stud with<br>200072c and 202277 .....                               |
| 202277  | —     | Needle Bar Connecting Stud Oil<br>Packing (wick) .....                                    |
| 200072c | 15217 | Needle Bar Connecting Stud Pinch<br>Screw .....                                           |

| No.     | Plate | Name                                                             |
|---------|-------|------------------------------------------------------------------|
| 204326  | —     | Needle Bar Packing Cord (2) ....                                 |
| 200504E | 15217 | " " Screw Bushing (lower)                                        |
| 200503B | 15217 | " " " " (upper)                                                  |
| 204250  | 15217 | " " Thread Guide .....                                           |
| 200175D | 15217 | " " " Screw ..                                                   |
| 200125F | 15217 | " Set Screw .....                                                |
| 204251  | 15216 | Presser Bar (hollow) with 200074F                                |
| 204252  | 10441 | " " Lifter .....                                                 |
| 200550c | 10441 | " " " Hinge Screw ...                                            |
| 204255  | 10441 | " " Lifting Bracket with<br>200086c .....                        |
| 200086c | 10441 | Presser Bar Lifting Bracket Pinch<br>Screw .....                 |
| 204254  | 10441 | Presser Bar Lifting Bracket Posi-<br>tion Guide .....            |
| 200362c | 10441 | Presser Bar Lifting Bracket Posi-<br>tion Guide Set Screw .....  |
| 204327  | —     | Presser Bar Packing Washer (felt)                                |
| 200504E | 15217 | " " Screw Bushing (lower)                                        |
| 204255  | —     | " " Spring .....                                                 |
| 200491B | 10441 | " " Thumb Screw (pres-<br>sure regulating) .....                 |
| 221193  | 15218 | Presser Foot .....                                               |
| 200074E | 10441 | " " Screw .....                                                  |
| 202068  | 15216 | Spool Holder Base .....                                          |
| 200575H | 12311 | " " " Screw .....                                                |
| 204296  | 15216 | " " Wire .....                                                   |
| 200079H | 12311 | " " " Hinge Screw ...                                            |
| 204297  | 15216 | Spool Holder complete, Nos.<br>200079H, 202068 and 204296 .....  |
| 212920  | 15216 | Take-up Cam with 200335c and<br>200430c .....                    |
| 203268  | —     | Take-up Cam 212920 with 200383c,<br>200658c and 201519E .....    |
| 203172  | 15217 | Take-up Cam Friction Washer ...                                  |
| 200430c | 12311 | " " Position Screw .....                                         |
| 200383c | 15217 | " " " " Check<br>Screw .....                                     |
| 200335c | 12311 | Take-up Cam Set Screw .....                                      |
| 204262  | 15217 | " Lever .....                                                    |
| 206556  | —     | " " 204262 with 204263 ...                                       |
| 204263  | 15217 | " " Bearing with 204264..                                        |
| 204264  | 15217 | " " " Position Pin ...                                           |
| 200042F | 12311 | " " " Screw .....                                                |
| 201816  | 15217 | " " Roller .....                                                 |
| 204266  | —     | Take-up Lever complete, Nos.<br>200042F, 201816 and 206556 ..... |

| No.     | Plate | Name                                                                                                     |
|---------|-------|----------------------------------------------------------------------------------------------------------|
| 244007  | 12309 | Tension Disc .....                                                                                       |
| 202090  | 15217 | " " Position Pin .....                                                                                   |
| 204267  | 15217 | " Release Lever .....                                                                                    |
| 200688C | 15217 | " " " Position Screw .....                                                                               |
| 200309E | 12309 | " " " Screw .....                                                                                        |
| 202075  | 12309 | " " Plunger .....                                                                                        |
| 208489  | 15218 | " " Slide .....                                                                                          |
| 206608  | 15217 | " " " Spring .....                                                                                       |
| 202407  | 10881 | " Spring .....                                                                                           |
| 200632B | 12309 | " Stud .....                                                                                             |
| 200397H | 12309 | " " Set Screw .....                                                                                      |
| 201572B | 10881 | " Thumb Nut .....                                                                                        |
| 204271  | 12309 | " Washer .....                                                                                           |
| 204272  | 12309 | Tension complete, Nos. 200632B,<br>201572B, 202075, 202407, 204271<br>and two 244007 .....               |
| 204273  | 15217 | Thread Controller Adjusting Collar<br>with 200684H (for Presser Bar)                                     |
| 200684H | 15218 | Thread Controller Adjusting Collar<br>Screw .....                                                        |
| 204274  | 12309 | Thread Controller Plate .....                                                                            |
| 200577H | 12311 | " " " Screw ....                                                                                         |
| 202098  | 12309 | " " Roller .....                                                                                         |
| 204275  | 12309 | " " " Guard .....                                                                                        |
| 202084  | 15218 | " " " " Washer                                                                                           |
| 200300C | 12309 | " " " Screw .....                                                                                        |
| 204276  | 12309 | " " Spring .....                                                                                         |
| 204333  | 12309 | " " " Guard .....                                                                                        |
| 200581H | 12309 | " " " " Screw..                                                                                          |
| 204277  | 12309 | " " " Stop .....                                                                                         |
| 204278  | 12309 | " " " " Driving<br>Gear .....                                                                            |
| 200319C | 12309 | Thread Controller Spring Stop<br>Driving Gear Hinge Screw .....                                          |
| 200135E | 12309 | Thread Controller Spring Stop<br>Screw .....                                                             |
| 204279  | 12309 | Thread Controller Spring Stud with<br>204925 .....                                                       |
| 200355H | 15218 | Thread Controller Spring Stud Set<br>Screw .....                                                         |
| 204925  | 15218 | Thread Controller Spring Stud<br>Washer .....                                                            |
| 205987  | 12309 | Thread Controller complete, Nos.<br>200300C, 200581H, 202084, 202098,<br>204274, 204275 and 204333 ..... |
| 204280  | 12309 | Thread Controller and Spring com-<br>plete, Nos. 204276 and 205987 ..                                    |

| No.     | Plate | Name                                                              |
|---------|-------|-------------------------------------------------------------------|
| 202413  | 15218 | Thread Guide .....                                                |
| 204281  | 12309 | " Retainer Guide Wire .....                                       |
| 202091  | 12309 | " " Sleeve .....                                                  |
| 202092  | 12309 | " " Spring .....                                                  |
| 204058  | 12309 | " " Stud .....                                                    |
| 200368H | 12309 | " " " Set Screw .....                                             |
| 204059  | 12309 | Thread Retainer complete, Nos.<br>202091, 202092 and 204058 ..... |
| 221194  | 15218 | Throat Plate, 40 needle hole, for<br>needle sizes 16 and 18 ..... |
| 200577H | 12311 | Throat Plate Screw (2) .....                                      |

## ACCESSORIES

| No.     | Plate | Name                                                           |
|---------|-------|----------------------------------------------------------------|
| 203208  | 11228 | Bobbin (5) .....                                               |
| *225482 | —     | " Case Screw Driver Blade ..                                   |
| *225483 | —     | " " " " Handle ..                                              |
| 225497  | 14154 | Bobbin Case Screw Driver complete, Nos. 225482 and 225483 ..   |
| 204033  | 15218 | Wrench .....                                                   |
| 126 x3  | —     | Needles, six, size 18 .....                                    |
| 227104  | —     | Drip Pan with one wood screw 1½ in., No. 14 .....              |
| 41401   | 14154 | Machine Rest Pin (wood) .....                                  |
| 120342  | 14154 | Oiler (copper plated) with 120343                              |
| 120343  | 14154 | " Spout, 3½ in. long .....                                     |
| *225484 | —     | Screw Driver Blade .....                                       |
| *225485 | —     | " " Handle .....                                               |
| 225498  | 14154 | Screw Driver complete (7½ in. long), Nos. 225484 and 225485 .. |
| 225554  | 14154 | 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 | 15218 | " 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 and two each 225459 and wood screws ¾ in., No. 12, R.H.B. .... |

### KNEE LIFTER

|        |       |                                                                                   |
|--------|-------|-----------------------------------------------------------------------------------|
| 227626 | 15219 | Lifting Lever Chain Spring .....                                                  |
| 227471 | —     | " " " " 227626 with 202784 .....                                                  |
| 202784 | 15219 | Lifting Lever Chain Spring Hook ..                                                |
| 2763   | 15219 | Rock Shaft .....                                                                  |
| 12242  | 15219 | " " Hanger (back) with two wood screws 1 in., No. 10 ..                           |
| 21327  | 15219 | Rock Shaft Hanger (front) with two wood screws 1 in., No. 10 ..                   |
| 6337   | 15219 | Rock Shaft Lifting Bracket with two 356c .....                                    |
| 39811  | 15219 | Rock Shaft Lifting Bracket Extension with 39576 .....                             |
| 356c   | 15219 | Rock Shaft Lifting Bracket Extension Set Screw .....                              |
| 356c   | 15219 | Rock Shaft Lifting Bracket Set Screw .....                                        |
| 227676 | 15219 | Rock Shaft Lifting Chain with 202784 .....                                        |
| 39576  | 15219 | Rock Shaft Lifting Chain Hook (lower) .....                                       |
| 202784 | 15219 | Rock Shaft Lifting Chain Hook (upper) .....                                       |
| 228562 | 15219 | Rock Shaft Knee Arm .....                                                         |
| 2766   | 15219 | " " " " Hub with 356c .....                                                       |
| 356c   | 15219 | Rock Shaft Knee Arm Hub Set Screw .....                                           |
| 1507R  | 15219 | Rock Shaft Knee Arm Lock Nut .....                                                |
| 228563 | —     | Knee Lifter Rock Shaft Knee Arm complete, Nos. 1507R, 2766, 2767 and 228562 ..... |

| No.    | Plate | Name                              |
|--------|-------|-----------------------------------|
| 2767   | 15219 | Rock Shaft Knee Plate with 356c.. |
| 228255 | 15219 | " " " " Counter                   |
|        |       | Balance Spring .....              |
| 356c   | 15219 | Rock Shaft Knee Plate Set Screw   |
| 2770   | 15219 | " " Stop Dog with 356c ...        |
| 356c   | 15219 | " " " " Set Screw ..              |
| 228251 | 15219 | Knee Lifter Rock Shaft complete,  |
|        |       | Nos. 2763, 6337, 12242, 21327,    |
|        |       | 39811, 227676, 228255, 228563,    |
|        |       | Form A 1079 and two 2770 .....    |

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

## PLATE 10441—FULL SIZE

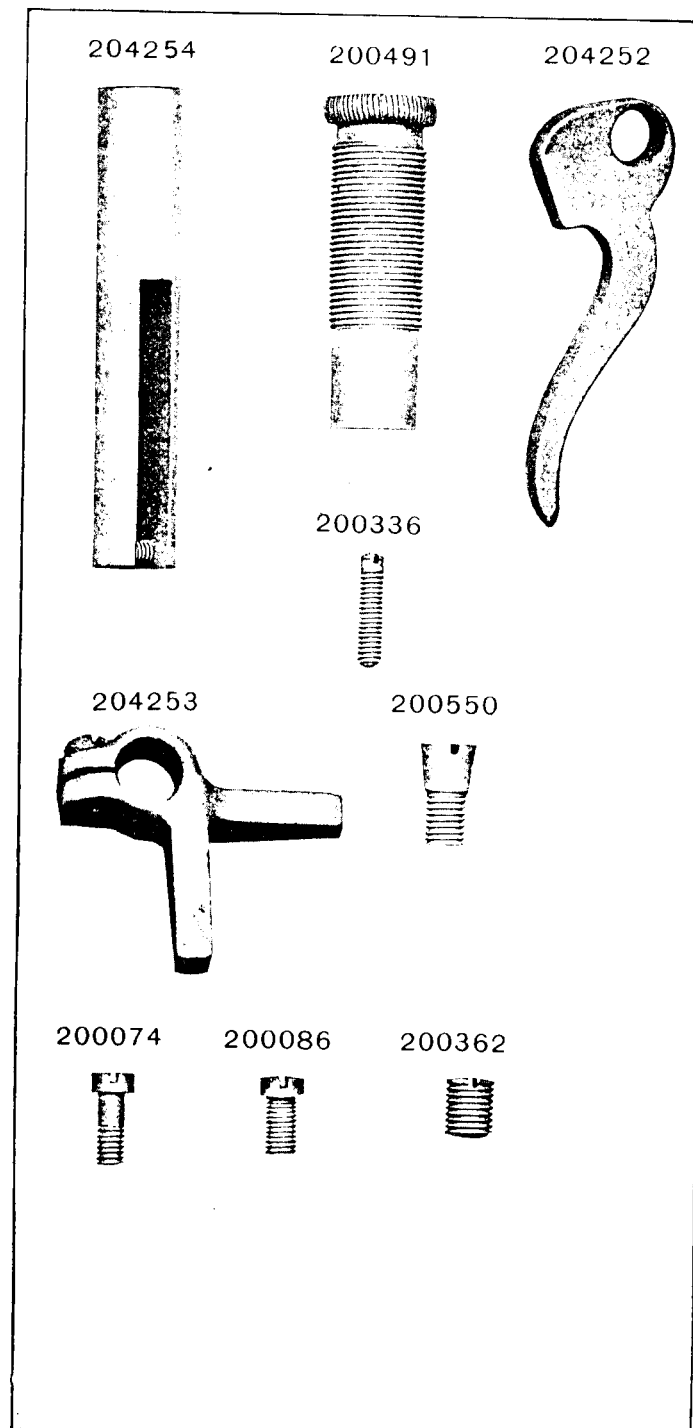
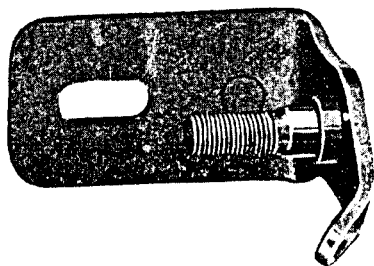


PLATE 10881—FULL SIZE

225461



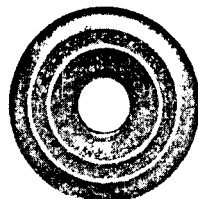
200082



202104



2102



202407



201499



201572



225462

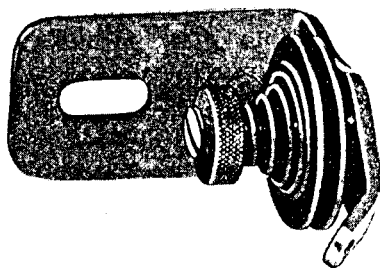
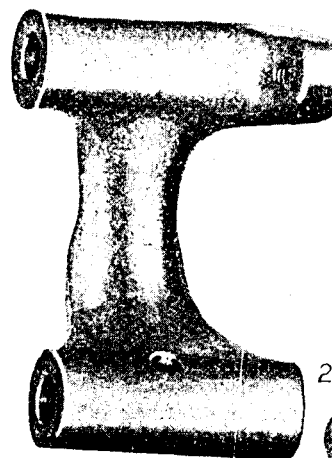
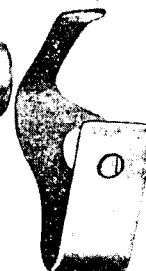


PLATE 10884—FULL SIZE

225453



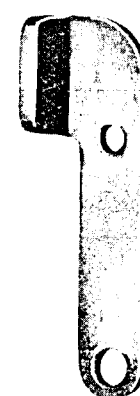
225444



202478



225458



228026



225460



225454



200299



225438



200056



225459



200105



225456



225381



225455



PLATE 10885-ONE-FOURTH SIZE

225433



202473



225382

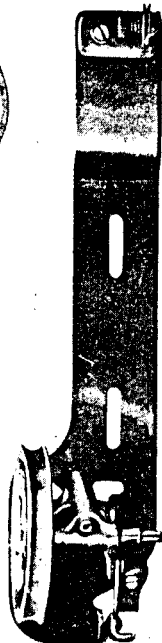
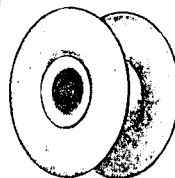


PLATE 11228-FULL SIZE

203208



203214



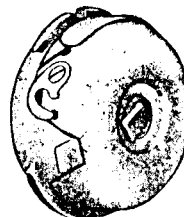
203209



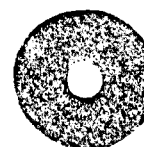
203215



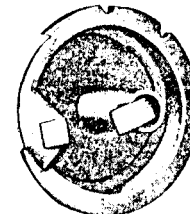
203217



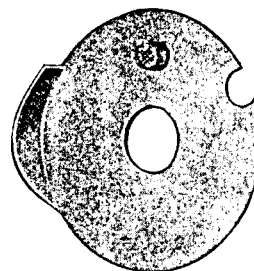
203216



203210



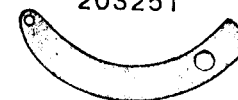
203254



200600



203251



200984



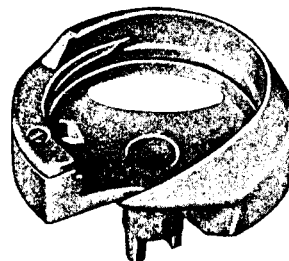
200616



200594



203240



203290

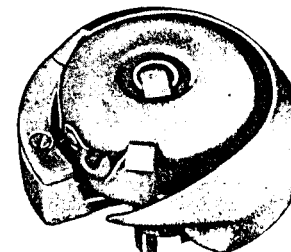


PLATE 12309 -FULL SIZE

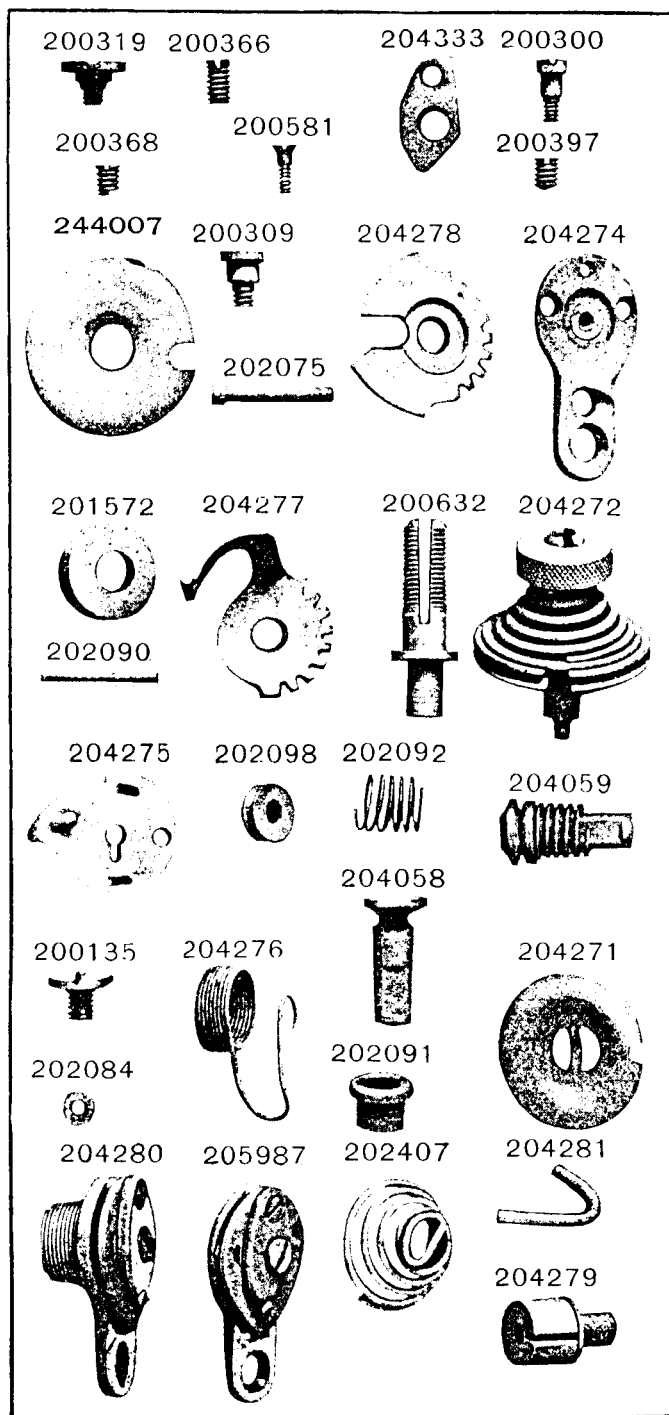


PLATE 12311 -FULL SIZE

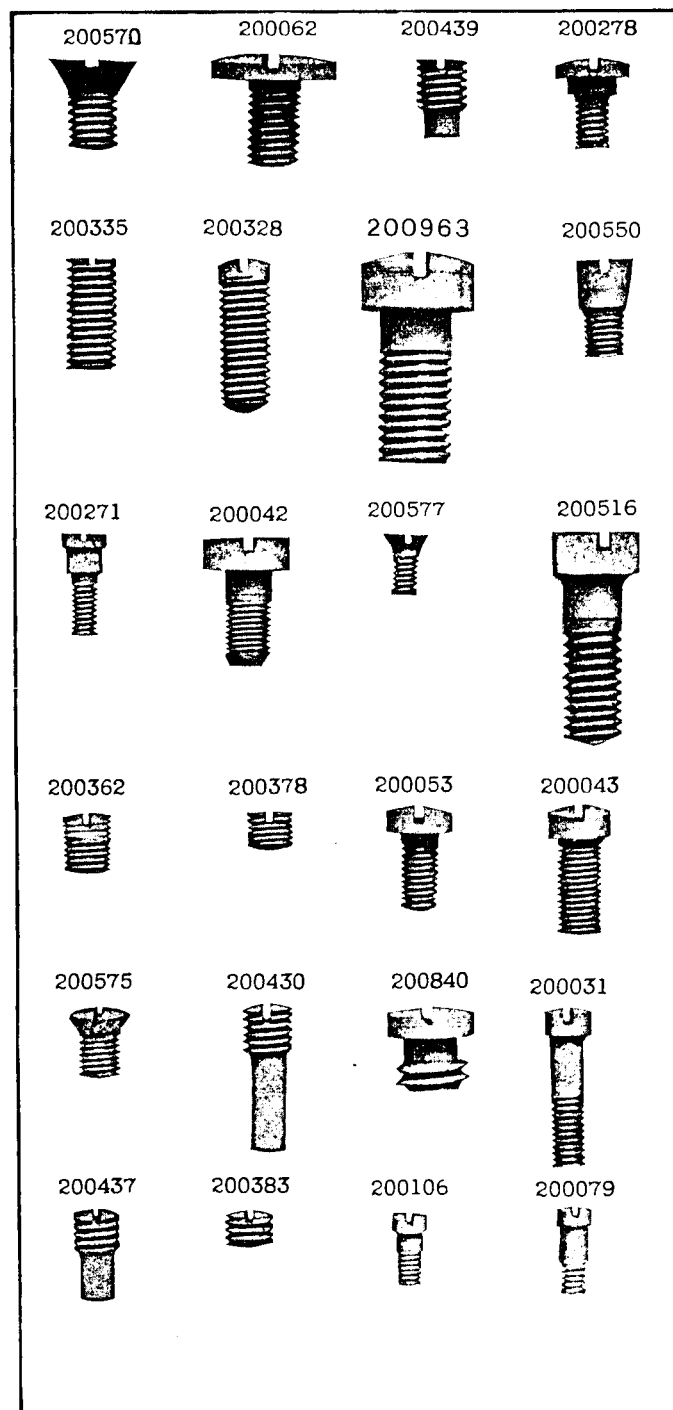


PLATE 14154—ONE-HALF SIZE

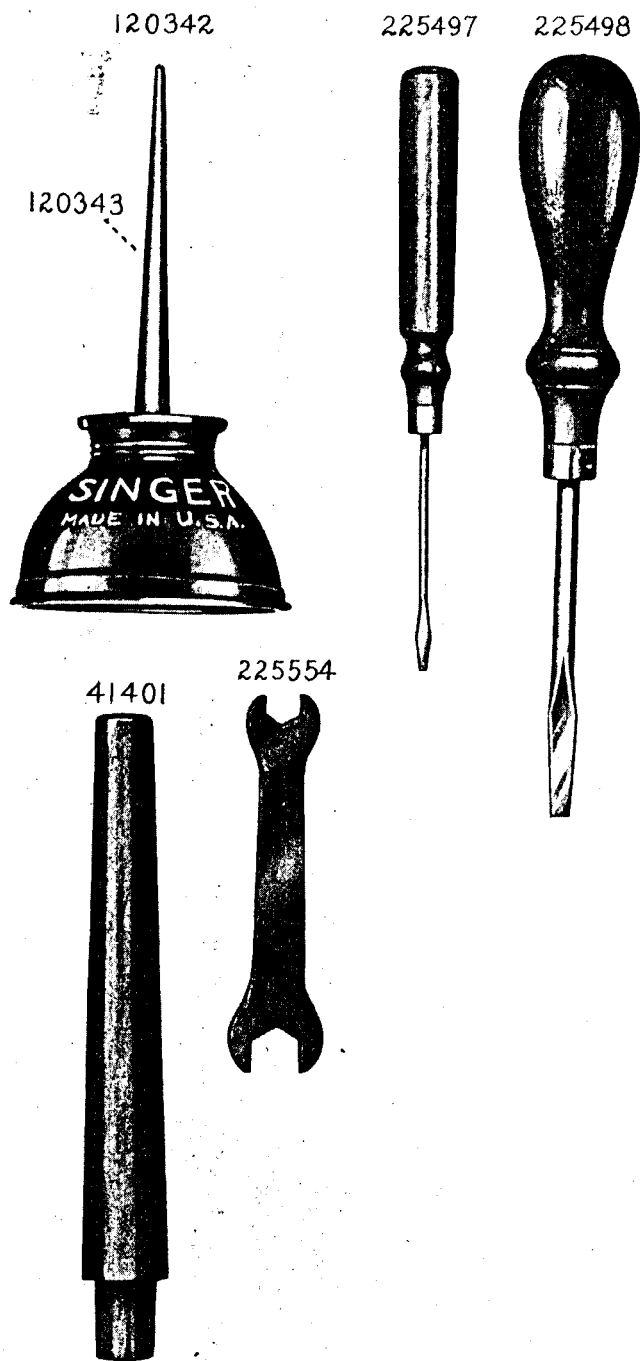


PLATE 15213—FULL SIZE

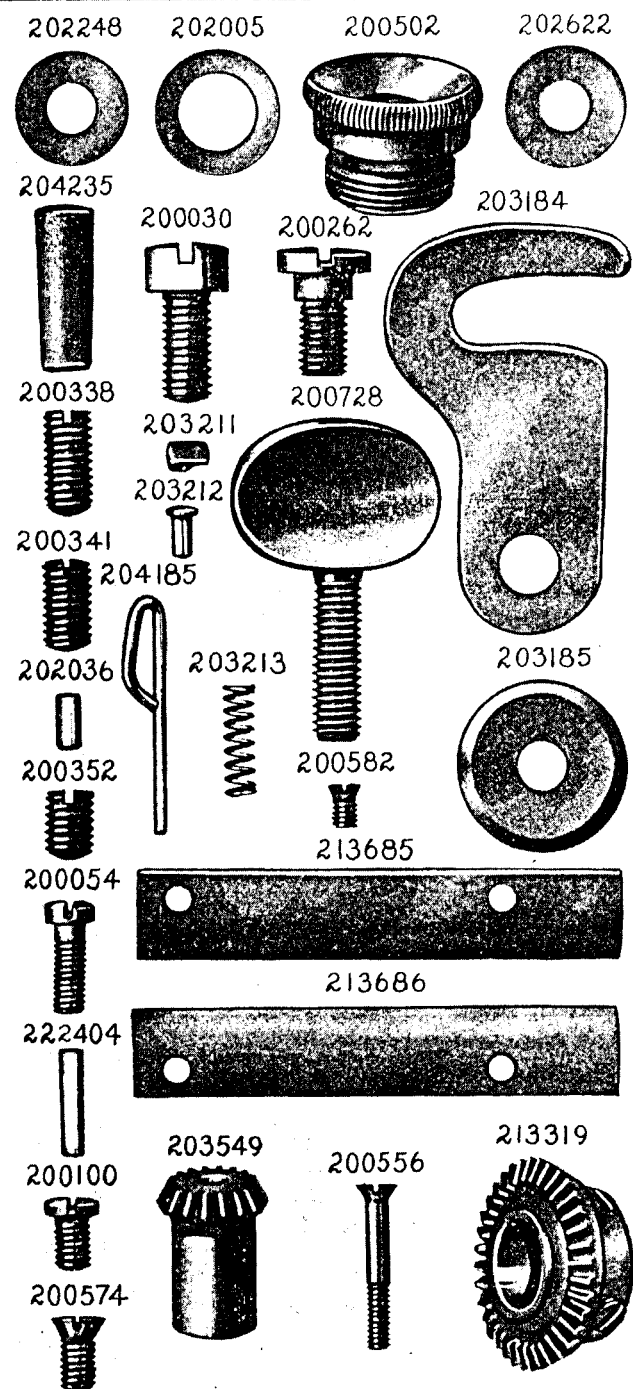


PLATE 15214—ONE-HALF SIZE

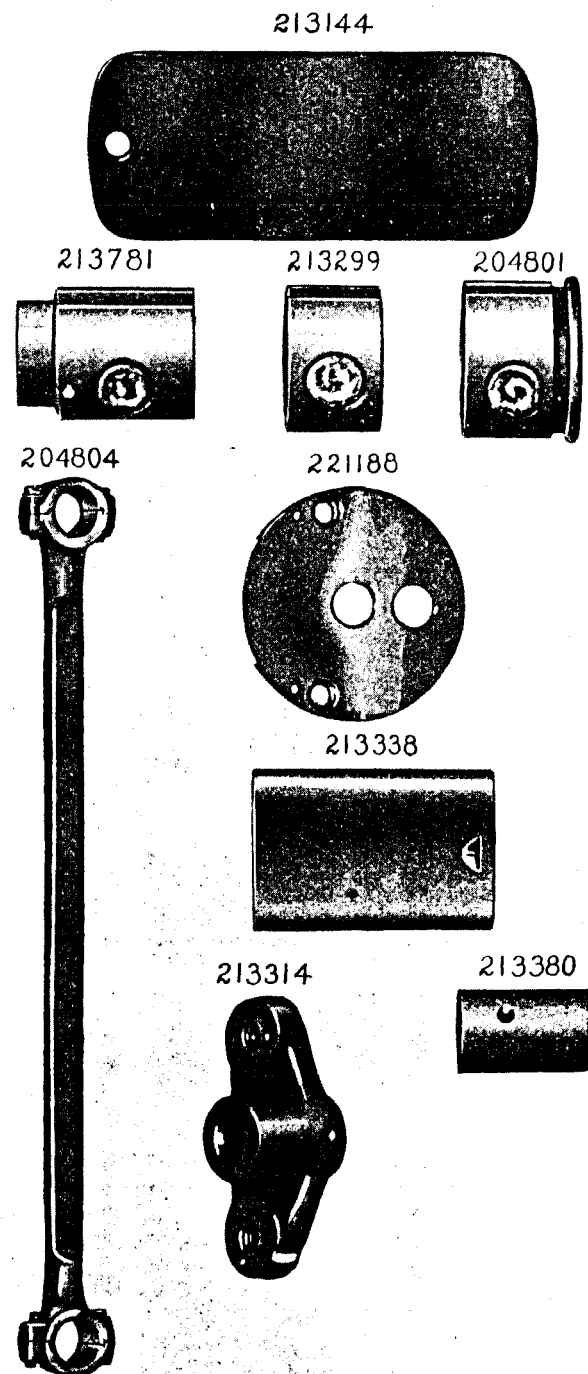
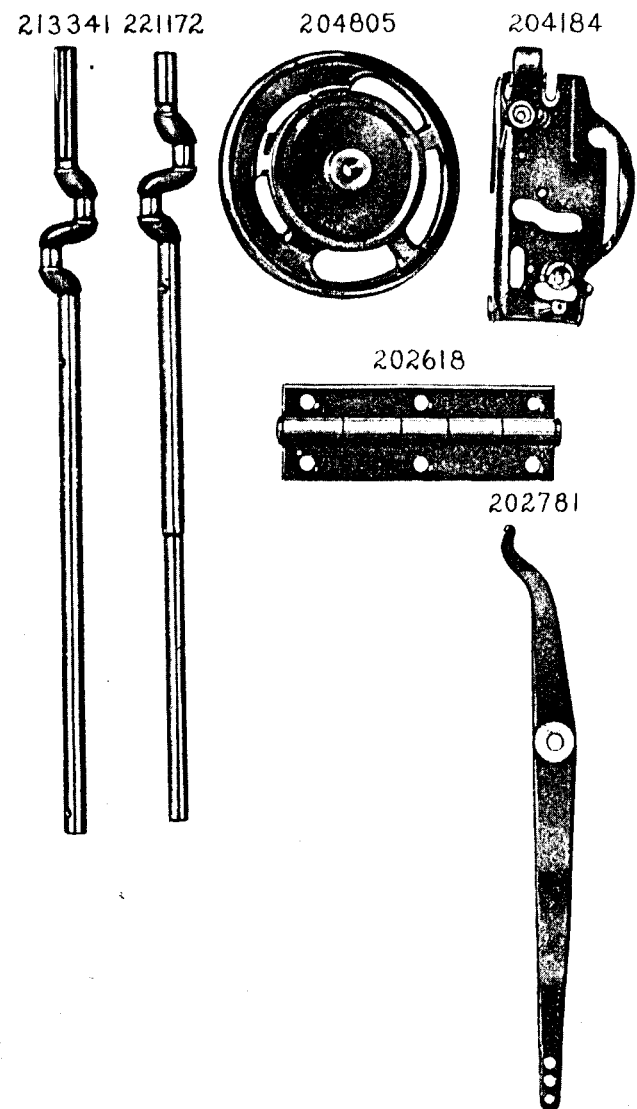


PLATE 15215—ONE-FOURTH SIZE



# PLATE 15216—ONE-HALF SIZE

208613

204251

204297

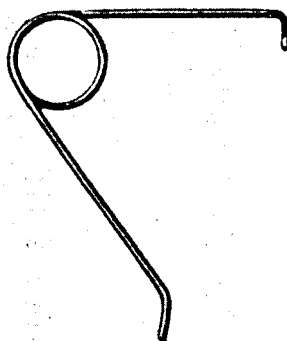
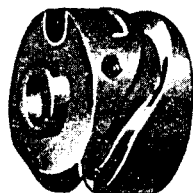
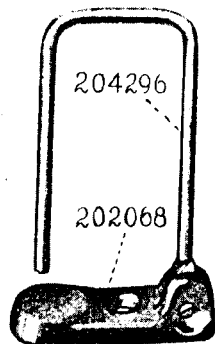
204296

202068

212920

203552

221145



# PLATE 15217—FULL SIZE

204246

203244

225837

204248



200383

200504

204249

200386



200072

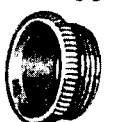
202126

200503



204262

201461



203172

204264

201519

200393

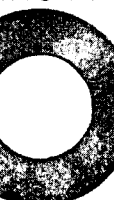
201376

201253

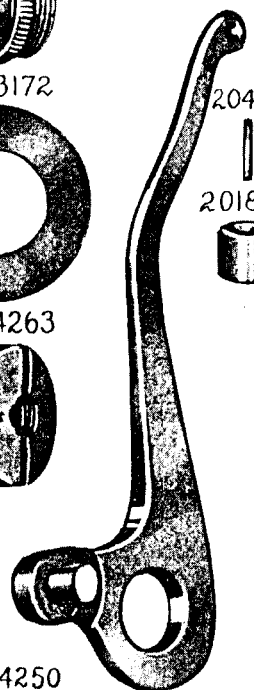
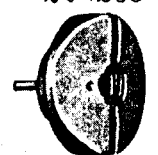
200541

200835

200658

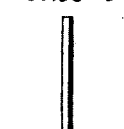


204263

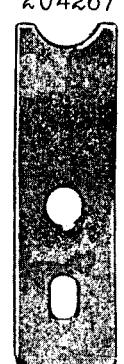


201816

202090



204267



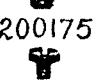
204273



204250

200125

200175

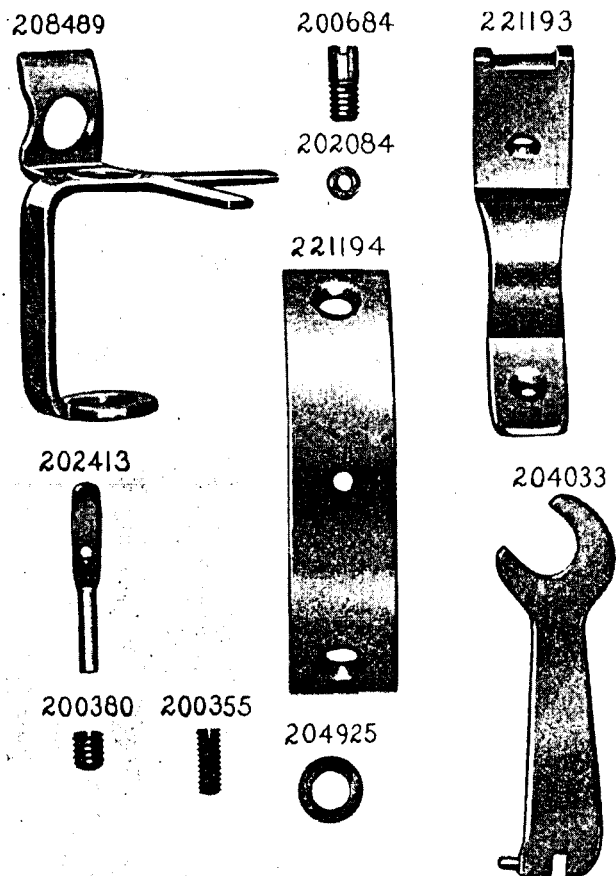


200688

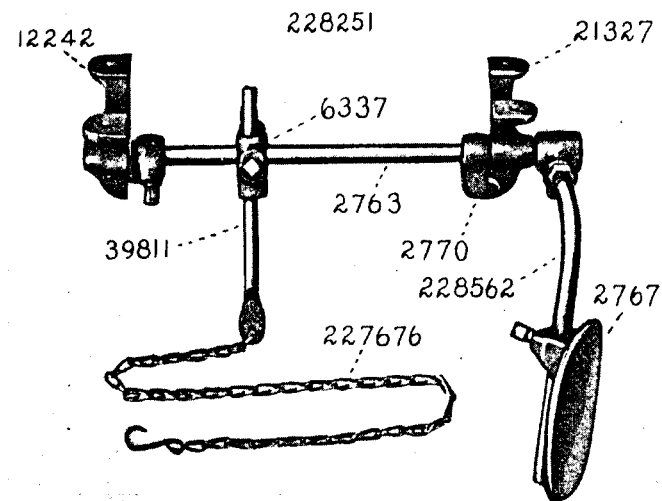
206608



# PLATE 15218—FULL SIZE



# PLATE 15219—ONE-FOURTH SIZE



## FULL SIZE

