

Form 2381w  
(Rev. 1055)  
Printed in U. S. A.

# LIST OF PARTS



## SINGER<sup>\*\*</sup>

### MACHINE No. 107w102

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THE SINGER MANUFACTURING COMPANY

## INSTRUCTIONS FOR OILING

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To insure easy running and prevent unnecessary wear of the parts which are in movable contact, the machine requires oiling, and when in continuous use, "TYPE B" or "TYPE D" OIL, sold by Singer Sewing Machine Company, should be applied at least twice each day to all oil holes marked "OIL", as instructed in Form 2083 w.

"TYPE D" OIL should be used when an oil is desired which will produce a minimum of stain on fabrics, even after a long period of storage.

Apply a few drops of oil to the bobbin case bearing each time a bobbin is replaced.

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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, Nickel Plated and Buffed.
- AL—Heat Treated for Toughness.
- ALX—Heat Treated for Toughness and Black Oxide.
- B—Polished, Nickel Plated and Buffed.
- C—Hardened only.
- D—Polished only.
- E—Soft, Not polished.
- F—Hardened and Polished.
- J—Nickel Plated only.
- R—Merlized.
- X—Black Oxide, for Iron and Steel.
- XC—Hardened and Black Oxide, for Iron and Steel.
- Y—Black Nickel Plated only.
- Z—Chromium Plated.

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

In this series

- 1 to 1500, 200001 to 201500 and 350001 to 351500 are Screw Numbers.
- 1501 to 1800, 201501 to 201800 and 351501 to 351800 are Nut Numbers.
- 1801 to 2000, 201801 to 202000 and 351801 to 352000 are Roller Numbers.
- 2001 to 50000 and 202001 to 350000 are Numbers of Machine Parts.

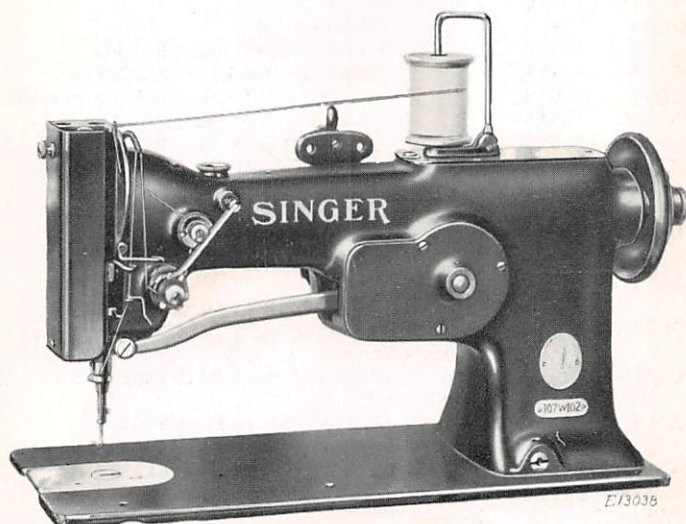
The figures in the second column refer only to the plate in which the illustration of the part is shown and are **NOT TO BE USED** in ordering.

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. 107w102

FOR FLAT EMBROIDERY WORK. HAS HAND ADJUSTING LEVER FOR THROWING THE STITCH ALL TO THE RIGHT, ALL TO THE LEFT OR FROM A CENTRAL POSITION FOR OVERSEAMING UP TO 1/2 INCH IN WIDTH. NO FEED MECHANISM OR PRESSER BAR PARTS.

| No.     | Plate | Name                                        |
|---------|-------|---------------------------------------------|
| *224301 | ----- | Arm with 202135                             |
| 203087  | 18918 | " Cap                                       |
| 200278X | 18918 | " " Screw                                   |
| 202248  | 18918 | " " " Washer                                |
| 203089  | 18918 | " " Spool Holder Base                       |
| 203090  | 18918 | " " " " " 203089 with<br>200079X and 204296 |
| 200585X | 18918 | Arm Cap Spool Holder Base Screw             |
| 204296  | 18918 | " " " " Wire                                |

| No.     | Plate | Name                                                                   |
|---------|-------|------------------------------------------------------------------------|
| 200079X | 18918 | Arm Cap Spool Holder Wire Hinge Screw                                  |
| 203088  | 18918 | Arm Cap and Spool Holder complete, Nos. 203087, 203090 and two 200585X |
| 204235  | 16820 | Arm Position Pin (2)                                                   |
| 200004E | 16820 | " Screw                                                                |
| 200010E | 16820 | " Screw (2)                                                            |
| 202005  | 16820 | " " Washer (3)                                                         |
| 233229  | 18918 | " Shaft with 224392 and 350431E                                        |
| 240802  | 18918 | " " Bushing (back) with 202244                                         |
| 202244  | 18918 | " " " " Oil Packing (wick)                                             |
| 200338C | 18918 | " " " " Set Screw                                                      |
| 224423  | 18918 | " " " (front) with 202244                                              |
| 202244  | 18918 | " " " " Oil Packing (wick)                                             |
| 200502X | 18918 | " " " " " Thumb Screw                                                  |
| 200341C | 18918 | Arm Shaft Bushing (front) Set Screw                                    |
| 224303  | 18919 | " " Connection Belt                                                    |
| 202635  | 18919 | " " " " Pulley with 200327C, 200602C and two 202253                    |
| 200602C | 18919 | Arm Shaft Connection Belt Pulley Position Screw                        |
| 200327C | 18919 | Arm Shaft Connection Belt Pulley Set Screw                             |
| 202253  | 18919 | Arm Shaft Connection Belt Pulley Spring Flange                         |
| 224392  | 18918 | Arm Shaft Oil Packing (wick)                                           |
| 350431E | 18918 | " " " " Stop Screw                                                     |
| *233222 | ----- | Bed                                                                    |
| 210844  | 16820 | " Hinge Connection (2)                                                 |
| 200060E | 16820 | " " " Screw (4)                                                        |
| 263099  | 18920 | Bobbin                                                                 |
| 224416  | 18920 | " Case Base                                                            |
| 224417  | 18920 | " " Cap with 200598C, 201016C and 224421                               |
| 224418  | 18920 | Bobbin Case Cap complete, Nos. 200964C, 210736, 210914 and 224417      |
| 210913  | 18920 | Bobbin Case Latch                                                      |
| 210914  | 18920 | " " " 210913 with 210734 and 210735                                    |
| 210735  | 18920 | Bobbin Case Latch Fulcrum Pin                                          |
| 210734  | 18920 | " " " Lever                                                            |
| 210736  | 18920 | " " " Spring                                                           |
| 200964C | 18920 | " " " Stop Screw                                                       |
| 224311  | 18919 | " " Stop                                                               |
| 200076D | 18919 | " " " Screw                                                            |
| 224421  | 18920 | " " Tension Spring                                                     |
| 201016C | 18920 | " " " " Regulating Screw                                               |
| 200598C | 18920 | Bobbin Case Tension Spring Screw                                       |
| 224419  | 18920 | Bobbin Case complete, Nos. 224416 and 224418                           |
| 224314  | 16820 | Face Plate                                                             |
| 202135  | 16820 | " " Position Pin                                                       |
| 200462X | 16820 | " " Thumb Screw                                                        |
| *224427 | ----- | Hook (sewing)                                                          |
| 224428  | 18920 | " 224427 with 200145C, 203101, 224330, 224339 and three 200596F        |

| No.      | Plate | Name                                                                 |
|----------|-------|----------------------------------------------------------------------|
| 224325   | 18920 | Hook and Bobbin Case complete, Nos. 224419 and 224428                |
| 224422   | 18919 | Hook Driving Gear (spiral) with 200383C and 200398C                  |
| 200398C  | 18919 | Hook Driving Gear (spiral) Position Screw                            |
| 200383C  | 18919 | Hook Driving Gear (spiral) Set Screw                                 |
| 224326   | 18919 | " " " Shaft                                                          |
| 202661   | 18919 | " " " " Belt Pulley with 202324 and two 200378C                      |
| 200378C  | 18919 | Hook Driving Gear Shaft Belt Pulley Set Screw                        |
| 202324   | 18919 | Hook Driving Gear Shaft Belt Pulley Spring Flange                    |
| 224327   | 18919 | Hook Driving Gear Shaft Bushing (back)                               |
| 200362C  | 18919 | " " " " " " Set Screw                                                |
| 224328   | 18919 | Hook Driving Gear Shaft Bushing (front)                              |
| 200346C  | 18919 | " " " " " " Set Screw                                                |
| 202260   | 18919 | Hook Driving Gear Shaft Oil Packing (wick)                           |
| 224329   | 18919 | Hook Gear (spiral) with two 200383C                                  |
| 200383C  | 18919 | " " " " Set Screw                                                    |
| 224330   | 18920 | " Gib                                                                |
| 200596F  | 18920 | " " Screw                                                            |
| 203101   | 18920 | " Oil Wick                                                           |
| 200915F  | 18919 | " Position Screw                                                     |
| 210537   | 18919 | " Shaft (hollow)                                                     |
| 210539   | 18919 | " " Bushing                                                          |
| 210621   | 18919 | " " " 210539 with 210537 and 350314F                                 |
| 224392   | 18919 | Hook Shaft Bushing Oil Packing (wick)                                |
| 200335C  | 18919 | " " " " Set Screw                                                    |
| 200363AL | 18919 | " " " " Screw                                                        |
| 244084   | 18919 | " " " " Packing (fibre)                                              |
| 350314F  | 18919 | Hook Shaft Position Screw                                            |
| 224331   | 16816 | " Timing Lever                                                       |
| 224332   | 16816 | " " " Connecting Link                                                |
| 201213C  | 16816 | " " " " " Hinge Screw Stud                                           |
| 201520C  | 16816 | Hook Timing Lever Connecting Link Hinge Screw Stud Nut               |
| 224333   | 16816 | Hook Timing Lever Connecting Swivel with 202277                      |
| 202277   | 16816 | Hook Timing Lever Connecting Swivel Oil Packing (wick)               |
| 224335   | 18919 | Hook Timing Lever Connecting Swivel Stop Collar with two 201052C (2) |
| 201052C  | 18919 | Hook Timing Lever Connecting Swivel Stop Collar Set Screw            |
| 224336   | 16816 | Hook Timing Lever Driving Arm                                        |
| 224337   | 16816 | " " " " " Bearing                                                    |
| 200252C  | 16816 | " " " " " Hinge Screw                                                |
| 201528F  | 16816 | Hook Timing Lever Driving Arm Hinge Screw Nut                        |



| No.      | Plate | Name                                                                                                                                                                                                     |
|----------|-------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 202622   | 16816 | Hook Timing Lever Driving Arm Washer                                                                                                                                                                     |
| 224386   | 16816 | Hook Timing Lever Shaft with 224390                                                                                                                                                                      |
| 204197   | 16816 | " " " " Collar with 200113F                                                                                                                                                                              |
| 200113F  | 16816 | Hook Timing Lever Shaft Collar Set Screw                                                                                                                                                                 |
| 224390   | 16816 | Hook Timing Lever Shaft Oil Packing (wick)                                                                                                                                                               |
| 200363AL | 16816 | Hook Timing Lever Shaft Set Screw                                                                                                                                                                        |
| 224388   | 16816 | Hook Timing Lever and Needle Bar Frame Pitman complete, Nos. 200252C, 201180C, 201181C, 201213C, 201518E, 201520C, 201522E, 201528F, 202622, 224331 to 224333, 224336, 224337, 224344, 224352 and 224353 |
| 224339   | 18920 | Hook Washer Needle Guard                                                                                                                                                                                 |
| 200145C  | 18920 | " " " " Screw                                                                                                                                                                                            |
| 237793   | 18918 | Machine Pulley (aluminum alloy casting) "V" belt groove (outside diam. of belt groove 2.9 in.) with 350540C and 350541C                                                                                  |
| 350419X  | 18918 | Machine Pulley Adjusting Screw                                                                                                                                                                           |
| 350540C  | 18918 | " " Position Screw                                                                                                                                                                                       |
| 350541C  | 18918 | " " Set Screw                                                                                                                                                                                            |
| 233122   | 16818 | Needle Bar with 200141F                                                                                                                                                                                  |
| 224340   | 16818 | " " Connecting Link                                                                                                                                                                                      |
| 224341   | 16818 | " " " " Stud with 202254                                                                                                                                                                                 |
| 202254   | 16818 | Needle Bar Connecting Link Stud Oil Packing (wick)                                                                                                                                                       |
| 200383C  | 16818 | Needle Bar Connecting Link Stud Set Screw                                                                                                                                                                |
| 200374AL | 16818 | Needle Bar Connecting Link Stud Set Screw                                                                                                                                                                |
| 210544   | 16818 | Needle Bar Connecting Stud with 202277                                                                                                                                                                   |
| 210585   | 16818 | " " " " 210544 with 210882                                                                                                                                                                               |
| 202277   | 16818 | Needle Bar Connecting Stud Oil Packing (wick)                                                                                                                                                            |
| 210882   | 16818 | Needle Bar Connecting Stud Swivel with 200387C                                                                                                                                                           |
| 224342   | 16818 | Needle Bar Crank with 200335C, 200374AL, 200383C, 200428C and 224341                                                                                                                                     |
| 224384   | 16818 | Needle Bar Crank 224342 with 202399, 202400, 210585, 224340 and 224372                                                                                                                                   |
| 203172   | 16818 | Needle Bar Crank Friction Washer                                                                                                                                                                         |
| 200428C  | 16818 | " " " Position Screw                                                                                                                                                                                     |
| 200335C  | 16818 | " " " Set Screw                                                                                                                                                                                          |
| 224343   | 16818 | " " Frame with 200070C                                                                                                                                                                                   |
| 210547   | 16818 | " " " Guide Stud                                                                                                                                                                                         |
| 200334C  | 16818 | " " " " Set Screw                                                                                                                                                                                        |
| 210548   | 16818 | " " " Hinge Stud                                                                                                                                                                                         |
| 200334C  | 16818 | " " " " Set Screw                                                                                                                                                                                        |
| 224344   | 16816 | " " " Pitman                                                                                                                                                                                             |
| 210557   | 16816 | " " " Eccentric Stud                                                                                                                                                                                     |
| 200070C  | 16818 | " " " " " "                                                                                                                                                                                              |

Set Screw



| No.     | Plate | Name                                                                        |
|---------|-------|-----------------------------------------------------------------------------|
| 224346  | 16817 | Needle Bar Position Bracket with 200378C and 200917C                        |
| 200917C | 16817 | Needle Bar Position Bracket Position Screw                                  |
| 200378C | 16817 | Needle Bar Position Bracket Set Screw                                       |
| 224347  | 16817 | Needle Bar Position Lever with 200378C and 200917C                          |
| 201182E | 16817 | Needle Bar Position Lever Locking Screw Stud                                |
| 224348  | 16817 | Needle Bar Position Lever Locking Screw Stud Cap                            |
| 205526  | 16817 | Needle Bar Position Lever Locking Screw Stud Spring                         |
| 200917C | 16817 | Needle Bar Position Lever Position Screw                                    |
| 200378C | 16817 | Needle Bar Position Lever Set Screw                                         |
| 224389  | 16817 | Needle Bar Position Lever complete, Nos. 201182E, 205526, 224347 and 224348 |
| 200387C | 16818 | Needle Bar Set Screw                                                        |
| 233201  | 16820 | " Plate                                                                     |
| 234452  | 16820 | " " Locking Slide                                                           |
| 200321D | 16820 | " " " " Screw                                                               |
| 200141F | 16818 | " Set Screw                                                                 |
| 224424  | 16816 | " Vibrator Cam (steel) with 200378C and 200383C                             |
| 200378C | 16816 | Needle Vibrator Cam Set Screw                                               |
| 200383C | 16816 | " " " " Screw                                                               |
| 210718  | 16816 | " " " " Shaft                                                               |
| 224351  | 16816 | " " " " Bearing and Cover                                                   |
| 200566D | 16816 | Needle Vibrator Cam Shaft Bearing and Cover Screw (3)                       |
| 210559  | 16816 | Needle Vibrator Cam Shaft Collar with two 200378C                           |
| 200378C | 16816 | Needle Vibrator Cam Shaft Collar Set Screw                                  |
| 224352  | 16816 | Needle Vibrator Crank with 200382C and 200917C                              |
| 224353  | 16816 | Needle Vibrator Crank Link                                                  |
| 201180C | 16816 | " " " " Hinge Screw (lower)                                                 |
| 201522E | 16816 | Needle Vibrator Crank Link Hinge Screw (lower) Nut                          |
| 201181C | 16816 | Needle Vibrator Crank Link Hinge Screw (upper)                              |
| 201518E | 16816 | Needle Vibrator Crank Link Hinge Screw (upper) Nut                          |
| 208554  | 16816 | Needle Vibrator Crank Oil Tube (brass)                                      |
| 200917C | 16816 | " " " " Position Screw                                                      |
| 200382C | 16816 | " " " " Set Screw                                                           |
| 224354  | 16817 | " " " " Shaft                                                               |
| 224355  | 16817 | " " " " and Needle Bar Position Lever Connection                            |
| 210699  | 16816 | Needle Vibrator Gear (spiral) with two 200382C                              |
| 200382C | 16816 | Needle Vibrator Gear (spiral) Set Screw                                     |
| 203172  | 16816 | " " " " Thrust Washer                                                       |

| No.       | Plate | Name                                                                                   |
|-----------|-------|----------------------------------------------------------------------------------------|
| 224409    | 16817 | Needle Vibrator Operating Bell Crank                                                   |
| 200224X   | 16817 | " " " "                                                                                |
|           |       | Hinge Screw                                                                            |
| 224410    | 16817 | Needle Vibrator Operating Bell Crank Link                                              |
| 200281D   | 16817 | Needle Vibrator Operating Bell Crank Link Hinge Screw (2)                              |
| 224358    | 16817 | Needle Vibrator Operating Lever with 200378C and 200917C                               |
| 200917C   | 16817 | Needle Vibrator Operating Lever Position Screw                                         |
| 200378C   | 16817 | Needle Vibrator Operating Lever Set Screw                                              |
| 224415    | 16817 | Needle Vibrator Operating Rod with 202302                                              |
| 202302    | 16817 | Needle Vibrator Operating Rod Cotter Pin                                               |
| 224411    | 16817 | Needle Vibrator Operating Rod Roller                                                   |
| 224412    | 16817 | " " " " "                                                                              |
|           |       | Bracket with 200113F                                                                   |
| 200113F   | 16817 | Needle Vibrator Operating Rod Roller Bracket Set Screw                                 |
| 200270X   | 16817 | Needle Vibrator Operating Rod Roller Hinge Screw                                       |
| 224413    | 16817 | Needle Vibrator Operating Rod Roller Bracket complete, Nos. 200270X, 224411 and 224412 |
| 210700    | 18918 | Needle Vibrator Pinion (spiral) with two 200382C                                       |
| 200382C   | 18918 | Needle Vibrator Pinion Set Screw                                                       |
| 224407    | 16817 | " " Spring                                                                             |
| 201284E   | 16817 | " " " Screw Stud                                                                       |
| 224408    | 16817 | " " " " Collar                                                                         |
|           |       | with two 200113F                                                                       |
| 200113F   | 16817 | Needle Vibrator Spring Screw Stud Collar Set Screw                                     |
| 224360    | 16817 | Needle Vibrator Stop Bracket with two 200374AL (for width of throw)                    |
| 200374AL  | 16817 | Needle Vibrator Stop Bracket Set Screw                                                 |
| 224381    | 16817 | " " " Index Finger                                                                     |
| 200330C   | 16817 | " " " Screw (for zero stops) (3)                                                       |
| 200340ALX | 16817 | Needle Vibrator Stop Screw Set Screw (3)                                               |
| 224361    | 16817 | Needle Vibrator Stop Screw Set Screw Packing (brass) (3)                               |
| 224382    | 16817 | Needle Vibrator Stop Segment                                                           |
| 201638D   | 16817 | " " " " Locking Nut                                                                    |
| 201179E   | 16817 | Needle Vibrator Stop Segment Locking Nut Check Screw                                   |
| 224383    | 16817 | Needle Vibrator Stop Segment Locking Nut Washer                                        |
| 200077D   | 16817 | Needle Vibrator Stop Segment Screw                                                     |
| 224371    | 16818 | Take-up (auxiliary)                                                                    |
| 200132E   | 16818 | " " Screw                                                                              |
| 224372    | 16818 | " Lever                                                                                |
| 202399    | 16818 | " " Driving Stud with 202277                                                           |

| No.       | Plate | Name                                                                                                       |
|-----------|-------|------------------------------------------------------------------------------------------------------------|
| 202277    | 16818 | Take-up Lever Driving Stud Oil Packing (wick)                                                              |
| 202400    | 16818 | Take-up Lever Hinge Stud with 202423                                                                       |
| 202423    | 16818 | " " " " Oil Packing (wick)                                                                                 |
| 200383C   | 16818 | Take-up Lever Hinge Stud Set Screw                                                                         |
| 202401    | 16818 | " " Oiling Felt                                                                                            |
| 200132E   | 16818 | " " " " Screw                                                                                              |
| 244048    | 18921 | Tension Disc (back)                                                                                        |
| 244049    | 18921 | " " (front)                                                                                                |
| 202405    | 18921 | " Release Washer                                                                                           |
| 202407    | 18921 | " Spring                                                                                                   |
| 200625F   | 18921 | " Stud with 204925                                                                                         |
| 200061ALX | 18921 | " " Set Screw                                                                                              |
| 204925    | 18921 | " " Washer                                                                                                 |
| 201572X   | 18921 | " Thumb Nut                                                                                                |
| 202409    | 18921 | Tension complete, Nos. 200625F, 201572X, 202405, 202407, 202410, 244048 and 244049                         |
| 201184J   | 18921 | Thread Controller Bearing (screw)                                                                          |
| 201637X   | 18921 | " " " Check Nut                                                                                            |
| 244048    | 18921 | " " Disc                                                                                                   |
| 224405    | 18921 | " " Cap                                                                                                    |
| 200577AL  | 18921 | " " " Screw                                                                                                |
| 224373    | 18921 | " " Position Pin                                                                                           |
| 224374    | 18921 | " " Releasing Plunger                                                                                      |
| 224375    | 16818 | " " " Roller                                                                                               |
| 224376    | 18921 | " " " Spring                                                                                               |
| 202410    | 18921 | " " Spring                                                                                                 |
| 241443    | 18921 | " " Stop                                                                                                   |
| 200132E   | 18921 | " " " Screw                                                                                                |
| 224406    | 18921 | Thread Controller complete, Nos. 200577AL, 201184J, 201637X, 224373, 224374, 224376, 224405 and two 244048 |
| 224387    | 16818 | Thread Guide (on Needle Bar Frame)                                                                         |
| 200172X   | 16818 | " " " " " " Screw                                                                                          |
| 210788    | 18921 | Thread Guide (lower)                                                                                       |
| 210592    | 18921 | " " (upper)                                                                                                |
| 200582X   | 18921 | " " Screw (2)                                                                                              |
| 233202    | 16820 | Throat Plate                                                                                               |
| 233203    | 16820 | " " Spring                                                                                                 |
| 200138D   | 16820 | " " " Screw                                                                                                |
| 233223    | 16820 | " " " Washer                                                                                               |
| 233204    | 16820 | Throat Plate complete, Nos. 233202, 234452, two 200321D, three each 233203, 233223 and six 200138D         |



## ACCESSORIES

| No.     | Plate | Name                                         |
|---------|-------|----------------------------------------------|
| 200157E | 18922 | Attachment Screw                             |
| 263099  | 18922 | Bobbin (2)                                   |
| 228213  | 17657 | Drip Pan (long) with four 3/4 in. wire nails |
| 208676  | 18922 | Embroidery Hoop, 12 inch                     |
| 41400   | 18922 | Machine Rest Pin (wood)                      |
| 135 x 7 | ----- | Needles, seven, size 9                       |
| 120342  | 18922 | Oiler (copper plated) with 120343            |
| 120343  | 18922 | " Spout, 3-1/2 in. long                      |
| 225498  | 18922 | Screw Driver (7-1/4 in. long)                |
| 228476  | 18922 | " " (Bobbin Case)                            |
| 225434  | 18922 | Spool Pin                                    |
| 225554  | 18922 | Wrench (steel)                               |

## BOBBIN WINDER

(SWINGING AUTOMATIC, RIGHT HAND)

FOR "V" BELT DRIVE

|         |       |                              |
|---------|-------|------------------------------|
| 259428  | 17853 | Brake (leather)              |
| 259429  | 17853 | " Clamp                      |
| 200113F | 17853 | " " Screw                    |
| 225453  | 17853 | Frame with 202277 and 259660 |
| 225454  | 17853 | " Hinge Pin                  |
| 202277  | 17853 | " Oil Packing (wick)         |
| 259660  | 17853 | " " Well Washer              |
| 225455  | 17853 | " Spring                     |
| 225456  | 17853 | " " Plunger                  |
| 259461  | 17853 | Pulley with 200380C          |
| 200380C | 17853 | " Set Screw                  |
| 225381  | 17853 | Spindle                      |
| 225444  | 17853 | Stop Latch                   |
| 200056E | 17853 | " " Screw                    |
| 225458  | 17853 | " " Thumb Lever              |
| 225459  | 17853 | " " " " Hinge Stud           |
| 225459  | 17853 | " " " " Joint Stud           |
| 202478  | 17853 | " " Trip Lever               |
| 200299X | 17853 | " " " " Hinge Screw          |
| 225461  | 17853 | Tension Bracket with 201499X |
| 200082D | 17853 | " " Screw                    |
| 228026  | 17853 | " " " Washer                 |
| 2102    | 17853 | " Disc                       |
| 13710   | 17853 | " Spring                     |
| 201499X | 17853 | " Stud                       |
| 201572X | 17853 | " " Thumb Nut                |

| No.    | Plate | Name                                                                                                                                                                                                                                   |
|--------|-------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 225462 | 17853 | Bobbin Winder Tension Bracket complete, Nos. 13710, 201572X, 225461 and two 2102                                                                                                                                                       |
| 259662 | 17853 | Bobbin Winder and Tension Bracket Base                                                                                                                                                                                                 |
| 259462 | 17853 | Universal Bobbin Winder complete, Nos. 200056E, 200082D, 200113F, 200299X, 202478, 225381, 225444, 225453 to 225456, 225458, 225462, 228026, 259428, 259429, 259461, 259662, two each 225459 and wood screws 3/4 in., No. 12, R. H. B. |

Note: Bobbin Winder 259462 is furnished with this Machine unless Bobbin Winder 259431 is specified on order

## KNEE LIFTER

|          |       |                                                                                 |
|----------|-------|---------------------------------------------------------------------------------|
| 228713   | 18580 | Rock Lever with two 350231C                                                     |
| 228707   | 18580 | " " Bracket with 200347AL and three wood screws 7/8 in., No. 12                 |
| 228709   | 18580 | Rock Lever Bracket 228707 with 228363, 228367, 228386, 228455 and 228713        |
| 228370   | 18580 | Rock Lever Extension with 200530C                                               |
| 350231C  | 18580 | " " " Set Screw                                                                 |
| 228363   | 18580 | " " Hinge Pin                                                                   |
| 228364   | 18580 | " " Knee Plate with 350231C                                                     |
| 228388   | 18580 | " " " " Arm                                                                     |
| 350231C  | 18580 | " " " " " Set Screw                                                             |
| 350231C  | 18580 | " " " " " Set Screw                                                             |
| 228455   | 18580 | " " Position Spring                                                             |
| 228365   | 18580 | " " Rod                                                                         |
| 200530C  | 18580 | " " " Set Screw                                                                 |
| 228386   | 18580 | " " Spring                                                                      |
| 228367   | 18580 | " " Stop Stud                                                                   |
| 200347AL | 18580 | " " " " " Set Screw                                                             |
| 228710   | 18580 | Knee Lifter Rock Lever complete, Nos. 228364, 228365, 228370, 228388 and 228709 |

(Other Knee Lifter Parts are Listed with Parts of Machine Head)

## CORDING ATTACHMENT

|         |       |                           |
|---------|-------|---------------------------|
| 233213  | 16823 | Cord Guide Arm with 1019C |
| 291B    | 16823 | " " " Thumb Screw         |
| 233218  | 16823 | " " Bracket with 291B     |
| 200678F | 16823 | " " Hinge Screw           |
| 8388    | 16823 | " " Spring                |
| 233219  | 16823 | " " " Plunger             |

## CORDING ATTACHMENT

| No.     | Plate | Name                                                                                                            |
|---------|-------|-----------------------------------------------------------------------------------------------------------------|
| 233220  | 16823 | Cord Guide Bracket Support                                                                                      |
| 200352C | 16823 | " " " " Set Screw                                                                                               |
| 233215  | 16823 | " " Tube (small)                                                                                                |
| 233216  | 16823 | " " " (large)                                                                                                   |
| 1019C   | 16823 | " " " Set Screw                                                                                                 |
| 233221  | 16823 | Cord Guide (hinged) complete, Nos.<br>8388, 200352C, 200678F, 233213,<br>233215, 233216 and 233218 to<br>233220 |

## EMBROIDERY FITTINGS

(WIDE THROW)

|          |       |                  |
|----------|-------|------------------|
| 210505   | 18924 | Bed Plate (back) |
| 200577AL | 18924 | " " " Screw (2)  |
| 233227   | 18924 | " Slide (front)  |
| 233228   | 18924 | Throat Plate     |
| 200577AL | 18924 | " " Screw (2)    |

## EMBROIDERY HOOPS

|        |       |                          |
|--------|-------|--------------------------|
| 208676 | 18922 | Embroidery Hoop, 12 inch |
| 233226 | 18922 | " Hoop, 4 inch           |

## MADEIRA ATTACHMENT

|         |       |                                                        |
|---------|-------|--------------------------------------------------------|
| 233205  | 18923 | Foot Lifter Lifting Lever                              |
| 200262X | 18923 | " " " " Hinge Screw                                    |
| 233206  | 18923 | Needle Vibrator Adjustable Stop Spindle                |
| 233207  | 18923 | " " " " "                                              |
|         |       | End Piece with 184C                                    |
| 184C    | 18923 | Needle Vibrator Adjustable Stop Spindle<br>Hinge Screw |
| 1776C   | 18923 | Needle Vibrator Adjustable Stop Spindle<br>Lock Nut    |
| 233208  | 18923 | Needle Vibrator Adjustable Stop Spindle<br>Support     |
| 350226E | 18923 | Needle Vibrator Operating Bell Crank<br>Hinge Screw    |
| 233209  | 18923 | Needle Vibrator Stop Segment                           |
| 244033  | 18923 | Presser Bar (hollow)                                   |
| 238097  | 18923 | " " 244033 with 201462F                                |
| 224391  | 18923 | " " Bushing                                            |
| 200352C | 18923 | " " " Set Screw                                        |
| 202554  | 18923 | " " Lifter                                             |



| No.        | Plate | Name                                                                                                           |
|------------|-------|----------------------------------------------------------------------------------------------------------------|
| 200653C    | 18923 | Presser Bar Lifter Hinge Screw                                                                                 |
| 210789     | 18923 | " " Lifting Releasing Lever<br>Bracket                                                                         |
| 200260E    | 18923 | Presser Bar Lifting Releasing Lever<br>Bracket Guide Screw                                                     |
| 206608     | 18923 | Presser Bar Lifting Releasing Lever<br>Bracket Spring                                                          |
| 202337     | 18923 | Presser Bar Position Guide                                                                                     |
| 202338     | 18923 | " " " " Lever with<br>200086F                                                                                  |
| 200086F    | 18923 | Presser Bar Position Guide Lever<br>Pinch Screw                                                                |
| 200352C    | 18923 | Presser Bar Position Guide Set Screw                                                                           |
| 202378     | 18923 | " " Spring                                                                                                     |
| 202346     | 18923 | " " " Stop Rod                                                                                                 |
| 200492X    | 18923 | " " Thumb Screw                                                                                                |
| 200475X    | 18923 | " " " Thumb Set<br>Screw                                                                                       |
| 244084     | 18923 | Presser Bar Thumb Screw Thumb Set<br>Screw Packing (fibre)                                                     |
| 233210     | 18923 | Presser Foot, for Eyelets 7/64 and<br>5/32 in. diameter                                                        |
| 233211     | 18923 | Presser Foot, for Eyelets 3/16 and<br>1/4 in. diameter                                                         |
| 201462F    | 18923 | Presser Foot Screw                                                                                             |
| 224402     | 18923 | Tension Release Lever                                                                                          |
| 224403     | 18923 | " " " 224402 with<br>200289E, 201537X and 224404                                                               |
| 200289E    | 18923 | Tension Release Lever Hinge Screw                                                                              |
| 201537X    | 18923 | " " " " " Nut                                                                                                  |
| 224404     | 18923 | " " " " Stud                                                                                                   |
| 200389C    | 18923 | " " " " Set<br>Screw                                                                                           |
| 202404     | 18923 | Tension Release Plunger                                                                                        |
| 234446     | 18923 | Throat Plate Spur, for Eyelets 7/64 in.<br>diameter                                                            |
| 234511     | 18923 | Throat Plate Spur, for Eyelets 5/32 in.<br>diameter                                                            |
| 234512     | 18923 | Throat Plate Spur, for Eyelets 3/16 in.<br>diameter                                                            |
| 234513     | 18923 | Throat Plate Spur, for Eyelets 1/4 in.<br>diameter                                                             |
| 14372      | 18923 | Treadle                                                                                                        |
| 227678     | 18923 | " Chain, 48 in. long, with 202784                                                                              |
| 202784     | 18923 | " " Hook                                                                                                       |
| 14373      | 18923 | " Extension                                                                                                    |
| 50581R     | 18923 | " " Screw                                                                                                      |
| 2718R      | 18923 | " " " Washer                                                                                                   |
| 17881      | 18923 | " Shaft                                                                                                        |
| 14374      | 18923 | " Spring                                                                                                       |
| 14375      | 18923 | " Stand                                                                                                        |
| 14376      | 18923 | Treadle complete, Nos. 2718R, 14372 to<br>14375, 17881, 50581R and two wood<br>screws, 1-1/4 in., No. 12, F.H. |
| Form 2769W |       | Instructions for applying Madeira<br>Attachment 233212                                                         |

## MADEIRA ATTACHMENT

| No.    | Plate | Name                                                                                                                                                                                                                                                                                                                  |
|--------|-------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 233212 | 18923 | Madeira Attachment complete, Nos.<br>1776C, 14376, 200260E, 200262X,<br>200389C, 200475X, 200492X,<br>200653C, 202337, 202338, 202346,<br>202378, 202404, 202554, 206608,<br>210789, 224391, 224403, 227678,<br>233205 to 233211, 234446, 234511<br>to 234513, 238097, 244084, 350226E,<br>Form 2769W and two 200352C |

## CORDING ATTACHMENT

USED WITH MADEIRA ATTACHMENT No. 233212

|        |       |                                               |
|--------|-------|-----------------------------------------------|
| 233213 | 16823 | Cord Guide Arm with 1019C                     |
| 291B   | 16823 | " " " Thumb Screw                             |
| 233214 | 16823 | " " Bracket with 291B                         |
| 233215 | 16823 | " " Tube (small)                              |
| 233216 | 16823 | " " " (large)                                 |
| 1019C  | 16823 | " " " Set Screw                               |
| 233217 | 16823 | Cord Guide complete, Nos. 233213 to<br>233216 |

## NEEDLE PLATES

|        |       |                         |
|--------|-------|-------------------------|
| 233201 | 16820 | Needle Plate            |
| 233224 | 18924 | " " for use with 233225 |

## WORK PLATE

|        |       |                                                                                              |
|--------|-------|----------------------------------------------------------------------------------------------|
| 233225 | 18924 | Work Plate, 18-3/8 in. long and 11-3/4<br>in. wide, for use with 12 in. em-<br>broidery hoop |
|--------|-------|----------------------------------------------------------------------------------------------|

# NUMERICAL LIST OF PARTS

17

| No.       | Plate                          | Name                                                                                                                 |
|-----------|--------------------------------|----------------------------------------------------------------------------------------------------------------------|
| 184C      | 18923                          | Needle Vibrator Adjustable Stop Spindle Hinge Screw, for 233207                                                      |
| 291B      | 16823                          | Cord Guide Arm Thumb Screw, for 233214 and 233218                                                                    |
| 1019C     | 16823                          | Cord Guide Tube Set Screw, for 233213                                                                                |
| 1776C     | 18923                          | Needle Vibrator Adjustable Stop Spindle Lock Nut, for 233212                                                         |
| 2102      | 17853                          | Bobbin Winder Tension Disc, for 225462                                                                               |
| 2718R     | 18923                          | Treadle Extension Screw Washer, for 14376                                                                            |
| 8388      | 16823                          | Cord Guide Bracket Spring, for 233221                                                                                |
| 13710     | 17853                          | Bobbin Winder Tension Spring, for 225462                                                                             |
|           | Nos. 14372 to 14375, for 14376 |                                                                                                                      |
| 14372     | 18923                          | Treadle                                                                                                              |
| 14373     | 18923                          | " Extension                                                                                                          |
| 14374     | 18923                          | " Spring                                                                                                             |
| 14375     | 18923                          | " Stand                                                                                                              |
| 14376     | 18923                          | Treadle complete, Nos. 2718R, 14372 to 14375, 17881, 50581R and two wood screws 1-1/4 in., No. 12, F. H., for 233212 |
| 17881     | 18923                          | Treadle Shaft, for 14376                                                                                             |
| 41400     | 18922                          | Machine Rest Pin (wood)                                                                                              |
| 50581R    | 18923                          | Treadle Extension Screw, for 14376                                                                                   |
| 120342    | 18922                          | Oiler (copper plated) with 120343                                                                                    |
| 120343    | 18922                          | " Spout, 3-1/2 in. long, for 120342                                                                                  |
| 200004E   | 16820                          | Arm Screw                                                                                                            |
| 200010E   | 16820                          | " Screw                                                                                                              |
| 200056E   | 17853                          | Bobbin Winder Stop Latch Screw, for 259462                                                                           |
| 200060E   | 16820                          | Bed Hinge Connection Screw                                                                                           |
| 200061ALX | 18921                          | Tension Stud Set Screw                                                                                               |
| 200070C   | 16818                          | Needle Bar Frame Pitman Eccentric Stud Set Screw, for 224343                                                         |
| 200076D   | 18919                          | Bobbin Case Stop Screw                                                                                               |
| 200077D   | 16817                          | Needle Vibrator Stop Segment Screw                                                                                   |
| 200079X   | 18918                          | Arm Cap Spool Holder Wire Hinge Screw, for 203090                                                                    |
| 200082D   | 17853                          | Bobbin Winder Tension Bracket Screw, for 259462                                                                      |
| 200086F   | 18923                          | Presser Bar Position Guide Lever Pinch Screw, for 202338                                                             |
| 200113F   | 17853                          | Bobbin Winder Brake Clamp Screw, for 259462                                                                          |
| 200113F   | 16816                          | Hook Timing Lever Shaft Collar Set Screw, for 204197                                                                 |
| 200113F   | 16817                          | Needle Vibrator Operating Rod Roller Bracket Set Screw, for 224412                                                   |
| 200113F   | 16817                          | Needle Vibrator Spring Screw Stud Collar Set Screw, for 224408                                                       |

| No.       | Plate | Name                                                                |
|-----------|-------|---------------------------------------------------------------------|
| 200132E   | 16818 | Take-up (auxiliary) Screw                                           |
| 200132E   | 16818 | " Lever Oiling Felt Screw                                           |
| 200132E   | 18921 | Thread Controller Spring Stop Screw                                 |
| 200138D   | 16820 | Throat Plate Spring Screw, for 233204                               |
| 200141F   | 16818 | Needle Set Screw, for 233122                                        |
| 200145C   | 18920 | Hook Washer Needle Guard Screw, for 224428                          |
| 200157E   | 18922 | Attachment Screw                                                    |
| 200172X   | 16818 | Thread Guide (on Needle Bar Frame) Screw                            |
| 200224X   | 16817 | Needle Vibrator Operating Bell Crank Hinge Screw                    |
| 200252C   | 16816 | Hook Timing Lever Driving Arm Hinge Screw, for 224388               |
| 200260E   | 18923 | Presser Bar Lifting Releasing Lever Bracket Guide Screw, for 233212 |
| 200262X   | 18923 | Foot Lifter Lifting Lever Hinge Screw, for 233212                   |
| 200270X   | 16817 | Needle Vibrator Operating Rod Roller Hinge Screw, for 224413        |
| 200278X   | 18918 | Arm Cap Screw                                                       |
| 200281D   | 16817 | Needle Vibrator Operating Bell Crank Link Hinge Screw               |
| 200289E   | 18923 | Tension Release Lever Hinge Screw, for 224403                       |
| 200299X   | 17853 | Bobbin Winder Stop Latch Trip Lever Hinge Screw, for 259462         |
| 200321D   | 16820 | Needle Plate Locking Slide Screw, for 233204                        |
| 200327C   | 18919 | Arm Shaft Connection Belt Pulley Set Screw, for 202635              |
| 200330C   | 16817 | Needle Vibrator Stop Screw (for zero stops)                         |
| 200334C   | 16818 | Needle Bar Frame Guide Stud Set Screw                               |
| 200334C   | 16818 | Needle Bar Frame Hinge Stud Set Screw                               |
| 200335C   | 18919 | Hook Shaft Bushing Set Screw                                        |
| 200335C   | 16818 | Needle Bar Crank Set Screw, for 224342                              |
| 200338C   | 18918 | Arm Shaft Bushing (back) Set Screw                                  |
| 200340ALX | 16817 | Needle Vibrator Stop Screw Set Screw                                |
| 200341C   | 18918 | Arm Shaft Bushing (front) Set Screw                                 |
| 200346C   | 18919 | Hook Driving Gear Shaft Bushing (front) Set Screw                   |
| 200347AL  | 18580 | Knee Lifter Rock Lever Stop Stud Set Screw, for 228707              |
| 200352C   | 16823 | Cord Guide Bracket Support Set Screw, for 233221                    |
| 200352C   | 18923 | Presser Bar Bushing Set Screw, for 233212                           |
| 200352C   | 18923 | Presser Bar Position Guide Set Screw, for 233212                    |
| 200362C   | 18919 | Hook Driving Gear Shaft Bushing (back) Set Screw                    |
| 200363AL  | 18919 | Hook Shaft Bushing Set Screw                                        |
| 200363AL  | 16816 | " Timing Lever Shaft Set Screw                                      |
| 200374AL  | 16818 | Needle Bar Connecting Link Stud Set Screw, for 224342               |



| No.      | Plate | Name                                                      |
|----------|-------|-----------------------------------------------------------|
| 200374AL | 16817 | Needle Vibrator Stop Bracket Set Screw, for 224360        |
| 200378C  | 18919 | Hook Driving Gear Shaft Belt Pulley Set Screw, for 202661 |
| 200378C  | 16817 | Needle Bar Position Bracket Set Screw, for 224346         |
| 200378C  | 16817 | Needle Bar Position Lever Set Screw, for 224347           |
| 200378C  | 16816 | Needle Vibrator Cam Set Screw, for 224424                 |
| 200378C  | 16816 | Needle Vibrator Cam Shaft Collar Set Screw, for 210559    |
| 200378C  | 16817 | Needle Vibrator Operating Lever Set Screw, for 224358     |
| 200380C  | 17853 | Bobbin Winder Pulley Set Screw, for 259461                |
| 200382C  | 16816 | Needle Vibrator Crank Set Screw, for 224352               |
| 200382C  | 16816 | Needle Vibrator Gear (spiral) Set Screw, for 210699       |
| 200382C  | 18918 | Needle Vibrator Pinion (spiral) Set Screw, for 210700     |
| 300383C  | 18919 | Hook Driving Gear (spiral) Set Screw, for 224422          |
| 200383C  | 18919 | Hook Gear (spiral) Set Screw, for 224329                  |
| 200383C  | 16818 | Needle Bar Connecting Link Stud Set Screw, for 224342     |
| 200383C  | 16816 | Needle Vibrator Cam Set Screw, for 224424                 |
| 200383C  | 16818 | Take-up Lever Hinge Stud Set Screw                        |
| 200387C  | 16818 | Needle Bar Set Screw, for 210882                          |
| 200389C  | 18923 | Tension Release Lever Hinge Stud Set Screw, for 233212    |
| 200398C  | 18919 | Hook Driving Gear (spiral) Position Screw, for 224422     |
| 200428C  | 16818 | Needle Bar Crank Position Screw, for 224342               |
| 200462X  | 16820 | Face Plate Thumb Screw                                    |
| 200475X  | 18923 | Presser Bar Thumb Screw Thumb Set Screw, for 233212       |
| 200492X  | 18923 | Presser Bar Thumb Screw, for 233212                       |
| 200502X  | 18918 | Arm Shaft Bushing (front) Oil Packing Thumb Screw         |
| 200530C  | 18580 | Knee Lifter Rock Lever Rod Set Screw, for 228370          |
| 200566D  | 16816 | Needle Vibrator Cam Shaft Bearing and Cover Screw         |
| 200577AL | 18924 | Bed Plate (back) Screw                                    |
| 200577AL | 18921 | Thread Controller Disc Cap Screw, for 224406              |
| 200577AL | 18924 | Throat Plate Screw                                        |
| 200582X  | 18921 | Thread Guide Screw                                        |
| 200585X  | 18918 | Arm Cap Spool Holder Base Screw, for 203088               |
| 200596F  | 18920 | Hook Gib Screw, for 224428                                |
| 200598C  | 18920 | Bobbin Case Tension Spring Screw, for 224417              |

| No.     | Plate | Name                                                                     |
|---------|-------|--------------------------------------------------------------------------|
| 200602C | 18919 | Arm Shaft Connection Belt Pulley<br>Position Screw, for 202635           |
| 200625F | 18921 | Tension Stud with 204925, for 202409                                     |
| 200653C | 18923 | Presser Bar Lifter Hinge Screw, for<br>233212                            |
| 200678F | 16823 | Cord Guide Bracket Hinge Screw, for<br>233221                            |
| 200915F | 18919 | Hook Position Screw                                                      |
| 200917C | 16817 | Needle Bar Position Bracket Position<br>Screw, for 224346                |
| 200917C | 16817 | Needle Bar Position Lever Position<br>Screw, for 224347                  |
| 200917C | 16816 | Needle Vibrator Crank Position Screw,<br>for 224352                      |
| 200917C | 16817 | Needle Vibrator Operating Lever Posi-<br>tion Screw, for 224358          |
| 200964C | 18920 | Bobbin Case Latch Stop Screw, for<br>224418                              |
| 201016C | 18920 | Bobbin Case Tension Spring Regulating<br>Screw, for 224417               |
| 201052C | 18919 | Hook Timing Lever Connecting Swivel<br>Stop Collar Set Screw, for 224335 |
| 201179E | 16817 | Needle Vibrator Stop Segment Locking<br>Nut Check Screw                  |
| 201180C | 16816 | Needle Vibrator Crank Link Hinge<br>Screw (lower) for 224388             |
| 201181C | 16816 | Needle Vibrator Crank Link Hinge<br>Screw (upper) for 224388             |
| 201182E | 16817 | Needle Bar Position Lever Locking<br>Screw Stud, for 224389              |
| 201184J | 18921 | Thread Controller Bearing (screw)<br>for 224406                          |
| 201213C | 16816 | Hook Timing Lever Connecting Link<br>Hinge Screw Stud, for 224388        |
| 201284E | 16817 | Needle Vibrator Spring Screw Stud                                        |
| 201462F | 18923 | Presser Foot Screw, for 238097                                           |
| 201499X | 17853 | Bobbin Winder Tension Stud, for 225461                                   |
| 201518E | 16816 | Needle Vibrator Crank Link Hinge Screw<br>(upper) Nut, for 224388        |
| 201520C | 16816 | Hook Timing Lever Connecting Link<br>Hinge Screw Stud Nut, for 224388    |
| 201522E | 16816 | Needle Vibrator Crank Link Hinge<br>Screw (lower) Nut, for 224388        |
| 201528F | 16816 | Hook Timing Lever Driving Arm Hinge<br>Screw Nut, for 224388             |
| 201537X | 18923 | Tension Release Lever Hinge Screw<br>Nut, for 224403                     |
| 201572X | 17853 | Bobbin Winder Tension Stud Thumb<br>Nut, for 225462                      |
| 201572X | 18921 | Tension Thumb Nut, for 202409                                            |
| 201637X | 18921 | Thread Controller Bearing Check Nut,<br>for 224406                       |
| 201638D | 16817 | Needle Vibrator Stop Segment Locking<br>Nut                              |
| 202005  | 16820 | Arm Screw Washer                                                         |
| 202135  | 16820 | Face Plate Position Pin, for 224301                                      |
| 202244  | 18918 | Arm Shaft Bushing (back) Oil Packing<br>(wick) for 240802                |

| No.    | Plate | Name                                                                               |
|--------|-------|------------------------------------------------------------------------------------|
| 202244 | 18918 | Arm Shaft Bushing (front) Oil Packing (wick) for 224423                            |
| 202248 | 18918 | Arm Cap Screw Washer                                                               |
| 202253 | 18919 | " Shaft Connection Belt Pulley Spring Flange, for 202635                           |
| 202254 | 16818 | Needle Bar Connecting Link Stud Oil Packing (wick) for 224341                      |
| 202260 | 18919 | Hook Driving Gear Shaft Oil Packing (wick)                                         |
| 202277 | 17853 | Bobbin Winder Frame Oil Packing * (wick) for 225453                                |
| 202277 | 16816 | Hook Timing Lever Connecting Swivel Oil Packing (wick) for 224333                  |
| 202277 | 16818 | Needle Bar Connecting Stud Oil Packing (wick) for 210544                           |
| 202277 | 16818 | Take-up Lever Driving Stud Oil Packing (wick) for 202399                           |
| 202302 | 16817 | Needle Vibrator Operating Rod Cotter Pin, for 224415                               |
| 202324 | 18919 | Hook Driving Gear Shaft Belt Pulley Spring Flange, for 202661                      |
| 202337 | 18923 | Presser Bar Position Guide, for 233212                                             |
| 202338 | 18923 | " " " " Lever with 200086F, for 233212                                             |
| 202346 | 18923 | Presser Bar Spring Stop Rod, for 233212                                            |
| 202378 | 18923 | Presser Bar Spring (heavy) for 233212                                              |
| 202399 | 16818 | Take-up Lever Driving Stud with 202277, for 224384                                 |
| 202400 | 16818 | Take-up Lever Hinge Stud with 202423, for 224384                                   |
| 202401 | 16818 | Take-up Lever Oiling Felt                                                          |
| 202404 | 18923 | Tension Release Plunger, for 233212                                                |
| 202405 | 18921 | " " Washer, for 202409                                                             |
| 202407 | 18921 | " Spring, for 202409                                                               |
| 202409 | 18921 | Tension complete, Nos. 200625F, 201572X, 202405, 202407, 202410, 244048 and 244049 |
| 202410 | 18921 | Thread Controller Spring, for 202409                                               |
| 202423 | 16818 | Take-up Lever Hinge Stud Oil Packing (wick) for 202400                             |
| 202478 | 17853 | Bobbin Winder Stop Latch Trip Lever, for 259462                                    |
| 202554 | 18923 | Presser Bar Lifter, for 233212                                                     |
| 202622 | 16816 | Hook Timing Lever Driving Arm Washer, for 224388                                   |
| 202635 | 18919 | Arm Shaft Connection Belt Pulley with 200327C, 200602C and two 202253              |
| 202661 | 18919 | Hook Driving Gear Shaft Belt Pulley with 202324 and two 200378C                    |
| 202784 | 18923 | Treadle Chain Hook, for 227678                                                     |
| 203087 | 18918 | Arm Cap, for 203088                                                                |
| 203088 | 18918 | Arm Cap and Spool Holder complete, Nos. 203087, 203090 and two 200585X             |
| 203089 | 18918 | Arm Cap Spool Holder Base, for 203090                                              |
| 203090 | 18918 | " " " " " 203089 with 200079X and 204296, for 203088                               |
| 203101 | 18920 | Hook Oil Wick, for 224428                                                          |
| 203172 | 16818 | Needle Bar Crank Friction Washer                                                   |

## NUMERICAL LIST OF PARTS

| No.     | Plate | Name                                                               |
|---------|-------|--------------------------------------------------------------------|
| 203172  | 16816 | Needle Vibrator Gear Thrust Washer                                 |
| 204197  | 16816 | Hook Timing Lever Shaft Collar with<br>200113F                     |
| 204235  | 16820 | Arm Position Pin                                                   |
| 204296  | 18918 | " Cap Spool Holder Wire, for 203090                                |
| 204925  | 18921 | Tension Stud Washer, for 200625F                                   |
| 205526  | 16817 | Needle Bar Position Lever Locking<br>Screw Stud Spring, for 224389 |
| 206608  | 18923 | Presser Bar Lifting Releasing Lever<br>Bracket Spring, for 233212  |
| 208554  | 16816 | Needle Vibrator Crank Oil Tube (brass)                             |
| 208676  | 18922 | Embroidery Hoop, 12 inch                                           |
| 210505  | 18924 | Bed Plate (back)                                                   |
| 210537  | 18919 | Hook Shaft (hollow) for 210621                                     |
| 210539  | 18919 | " " Bushing, for 210621                                            |
| 210544  | 16818 | Needle Bar Connecting Stud with<br>202277, for 210585              |
| 210547  | 16818 | Needle Bar Frame Guide Stud                                        |
| 210548  | 16818 | " " " Hinge Stud                                                   |
| 210557  | 16816 | " " " Pitman Eccentric<br>Stud                                     |
| 210559  | 16816 | Needle Vibrator Cam Shaft Collar with<br>two 200378C               |
| 210585  | 16818 | Needle Bar Connecting Stud 210544<br>with 210882, for 224384       |
| 210592  | 18921 | Thread Guide (upper)                                               |
| 210621  | 18919 | Hook Shaft Bushing 210539 with 210537<br>and 350314F               |
| 210699  | 16816 | Needle Vibrator Gear (spiral) with two<br>200382C                  |
| 210700  | 18918 | Needle Vibrator Pinion (spiral) with<br>two 200382C                |
| 210718  | 16816 | Needle Vibrator Cam Shaft                                          |
| 210734  | 18920 | Bobbin Case Latch Lever, for 210914                                |
| 210735  | 18920 | " " " Fulcrum Pin, for<br>210914                                   |
| 210736  | 18920 | Bobbin Case Latch Spring, for 224418                               |
| 210788  | 18921 | Thread Guide (lower)                                               |
| 210789  | 18923 | Presser Bar Lifting Releasing Lever<br>Bracket, for 233212         |
| 210844  | 16820 | Bed Hinge Connection                                               |
| 210882  | 16818 | Needle Bar Connecting Stud Swivel<br>with 200387C, for 210585      |
| 210913  | 18920 | Bobbin Case Latch, for 210914                                      |
| 210914  | 18920 | " " " 210913 with 210734<br>and 210735, for 224418                 |
| *224301 | ----- | Arm with 202135                                                    |
| 224303  | 18919 | " Shaft Connection Belt                                            |
| 224311  | 18919 | Bobbin Case Stop                                                   |
| 224314  | 16820 | Face Plate                                                         |
| 224325  | 18920 | Hook and Bobbin Case complete, Nos.<br>224419 and 224428           |
| 224326  | 18919 | Hook Driving Gear Shaft                                            |
| 224327  | 18919 | " " " " Bushing (back)                                             |
| 224328  | 18919 | " " " " " (front)                                                  |
| 224329  | 18919 | " Gear (spiral) with two 200383C                                   |
| 224330  | 18920 | " Gib, for 224428                                                  |



| No.    | Plate                             | Name                                                                             |
|--------|-----------------------------------|----------------------------------------------------------------------------------|
|        | Nos. 224331 to 224333, for 224388 |                                                                                  |
| 224331 | 16816                             | Hook Timing Lever                                                                |
| 224332 | 16816                             | " " " Connecting Link                                                            |
| 224333 | 16816                             | " " " " Swivel with                                                              |
|        | 202277                            |                                                                                  |
| 224335 | 18919                             | Hook Timing Lever Connecting Swivel Stop Collar with two 201052C                 |
| 224336 | 16816                             | Hook Timing Lever Driving Arm, for 224388                                        |
| 224337 | 16816                             | Hook Timing Lever Driving Arm Bearing, for 224388                                |
| 224339 | 18920                             | Hook Washer Needle Guard, for 224428                                             |
| 224340 | 16818                             | Needle Bar Connecting Link, for 224384                                           |
| 224341 | 16818                             | " " " " Stud with                                                                |
|        | 202254, for 224342                |                                                                                  |
| 224342 | 16818                             | Needle Bar Crank with 200335C, 200374AL, 200383C, 200428C and 224341, for 224384 |
| 224343 | 16818                             | Needle Bar Frame with 200070C                                                    |
| 224344 | 16816                             | " " " Pitman, for 224388                                                         |
| 224346 | 16817                             | " " Position Bracket with 200378C and 200917C                                    |
| 224347 | 16817                             | Needle Bar Position Lever with 200378C and 200917C, for 224389                   |
| 224348 | 16817                             | Needle Bar Position Lever Locking Screw Stud Cap, for 224389                     |
| 224351 | 16816                             | Needle Vibrator Cam Shaft Bearing and Cover                                      |
| 224352 | 16816                             | Needle Vibrator Crank with 200382C and 200917C, for 224388                       |
| 224353 | 16816                             | Needle Vibrator Crank Link, for 224388                                           |
| 224354 | 16817                             | " " " Shaft                                                                      |
| 224355 | 16817                             | " " " " and Needle Bar Position Lever Connection                                 |
| 224358 | 16817                             | Needle Vibrator Operating Lever with 200378C and 200917C                         |
| 224360 | 16817                             | Needle Vibrator Stop Bracket with two 200374AL (for width of throw)              |
| 224361 | 16817                             | Needle Vibrator Stop Screw Set Screw Packing (brass)                             |
| 224371 | 16818                             | Take-up (auxiliary)                                                              |
| 224372 | 16818                             | " Lever, for 224384                                                              |
| 224373 | 18921                             | Thread Controller Disc Position Pin, for 224406                                  |
| 224374 | 18921                             | Thread Controller Releasing Plunger, for 224406                                  |
| 224375 | 16818                             | Thread Controller Releasing Plunger Roller                                       |
| 224376 | 18921                             | Thread Controller Releasing Plunger Spring, for 224406                           |
| 224381 | 16817                             | Needle Vibrator Stop Index Finger                                                |
| 224382 | 16817                             | " " " Segment                                                                    |
| 224383 | 16817                             | " " " " Locking Nut Washer                                                       |
| 224384 | 16818                             | Needle Bar Crank 224342 with 202399, 202400, 210585, 224340 and 224372           |
| 224386 | 16816                             | Hook Timing Lever Shaft with 224390                                              |
| 224387 | 16818                             | Thread Guide (on Needle Bar Frame)                                               |

| No.     | Plate | Name                                                                                                                                                                                                                       |
|---------|-------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 224388  | 16816 | Hook Timing Lever and Needle Bar<br>Frame Pitman complete, Nos.<br>200252C, 201180C, 201181C,<br>201213C, 201518E, 201520C,<br>201522E, 201528F, 202622, 224331<br>to 224333, 224336, 224337, 224344,<br>224352 and 224353 |
| 224389  | 16817 | Needle Bar Position Lever complete,<br>Nos. 201182E, 205526, 224347 and<br>224348                                                                                                                                          |
| 224390  | 16816 | Hook Timing Lever Shaft Oil Packing<br>(wick) for 224386                                                                                                                                                                   |
| 224391  | 18923 | Presser Bar Bushing, for 233212                                                                                                                                                                                            |
| 224392  | 18918 | Arm Shaft Oil Packing (wick) for 233229                                                                                                                                                                                    |
| 224392  | 18919 | Hook Shaft Bushing Oil Packing (wick)                                                                                                                                                                                      |
| 224402  | 18923 | Tension Release Lever, for 224403                                                                                                                                                                                          |
| 224403  | 18923 | " " " 224402 with<br>200289E, 201537X and 224404, for<br>233212                                                                                                                                                            |
| 224404  | 18923 | Tension Release Lever Hinge Stud, for<br>224403                                                                                                                                                                            |
| 224405  | 18921 | Thread Controller Disc Cap, for 224406                                                                                                                                                                                     |
| 224406  | 18921 | Thread Controller complete, Nos.<br>200577AL, 201184J, 201637X, 224373,<br>224374, 224376, 224405 and two 244048                                                                                                           |
| 224407  | 16817 | Needle Vibrator Spring                                                                                                                                                                                                     |
| 224408  | 16817 | " " " Screw Stud Collar<br>with two 200113F                                                                                                                                                                                |
| 224409  | 16817 | Needle Vibrator Operating Bell Crank                                                                                                                                                                                       |
| 224410  | 16817 | " " " " "                                                                                                                                                                                                                  |
|         |       | Link                                                                                                                                                                                                                       |
| 224411  | 16817 | Needle Vibrator Operating Rod Roller,<br>for 224413                                                                                                                                                                        |
| 224412  | 16817 | Needle Vibrator Operating Rod Roller<br>Bracket with 200113F, for 224413                                                                                                                                                   |
| 224413  | 16817 | Needle Vibrator Operating Rod Roller<br>Bracket complete, Nos. 200270X,<br>224411 and 224412                                                                                                                               |
| 224415  | 16817 | Needle Vibrator Operating Rod with<br>202302                                                                                                                                                                               |
| 224416  | 18920 | Bobbin Case Base, for 224419                                                                                                                                                                                               |
| 224417  | 18920 | " " Cap with 200598C, 201016C,<br>and 224421, for 224418                                                                                                                                                                   |
| 224418  | 18920 | Bobbin Case Cap complete, Nos.<br>200964C, 210736, 210914 and 224417,<br>for 224419                                                                                                                                        |
| 224419  | 18920 | Bobbin Case complete Nos. 224416 and<br>224418, for 224325                                                                                                                                                                 |
| 224421  | 18920 | Bobbin Case Tension Spring, for 224417                                                                                                                                                                                     |
| 224422  | 18919 | Hook Driving Gear (spiral) with<br>200383C and 200398C                                                                                                                                                                     |
| 224423  | 18918 | Arm Shaft Bushing (front) with 202244                                                                                                                                                                                      |
| 224424  | 16816 | Needle Vibrator Cam (steel) with<br>200378C and 200383C                                                                                                                                                                    |
| *224427 | ----- | Hook (sewing) for 224428                                                                                                                                                                                                   |
| 224428  | 18920 | " 224427 with 200145C, 203101,<br>224330, 224339 and three 200596F,<br>for 224325                                                                                                                                          |



| No.    | Plate | Name                                                                                             |
|--------|-------|--------------------------------------------------------------------------------------------------|
| 225381 | 17853 | Bobbin Winder Spindle, for 259462                                                                |
| 225434 | 18922 | Spool Pin                                                                                        |
| 225444 | 17853 | Bobbin Winder Stop Latch, for 259462                                                             |
|        | Nos.  | 225453 to 225456, for 259462                                                                     |
| 225453 | 17853 | Bobbin Winder Frame with 202277 and 259660                                                       |
| 225454 | 17853 | Bobbin Winder Frame Hinge Pin                                                                    |
| 225455 | 17853 | " " " Spring                                                                                     |
| 225456 | 17853 | " " " Plunger                                                                                    |
| 225458 | 17853 | " " Stop Latch Thumb Lever, for 259462                                                           |
| 225459 | 17853 | Bobbin Winder Stop Latch Thumb Lever Hinge Stud, for 259462                                      |
| 225459 | 17853 | Bobbin Winder Stop Latch Thumb Lever Joint Stud, for 259462                                      |
| 225461 | 17853 | Bobbin Winder Tension Bracket with 201499X, for 225462                                           |
| 225462 | 17853 | Bobbin Winder Tension Bracket complete, Nos. 13710, 201572X, 225461 and two 2102, for 259462     |
| 225498 | 18922 | Screw Driver (7-1/4 in. long)                                                                    |
| 225554 | 18922 | Wrench (steel)                                                                                   |
| 227678 | 18923 | Treadle Chain, 48 in. long, with 202784, for 233212                                              |
| 228026 | 17853 | Bobbin Winder Tension Bracket Screw Washer, for 259462                                           |
| 228213 | 17657 | Drip Pan (long) with four 3/4 in. wire nails                                                     |
| 228363 | 18580 | Knee Lifter Rock Lever Hinge Pin, for 228709                                                     |
| 228364 | 18580 | Knee Lifter Rock Lever Knee Plate with 350231C, for 228710                                       |
| 228365 | 18580 | Knee Lifter Rock Lever Rod, for 228710                                                           |
| 228367 | 18580 | Knee Lifter Rock Lever Stop Stud, for 228709                                                     |
| 228370 | 18580 | Knee Lifter Rock Lever Extension with 200530C, for 228710                                        |
| 228386 | 18580 | Knee Lifter Rock Lever Spring, for 228709                                                        |
| 228388 | 18580 | Knee Lifter Rock Lever Knee Plate Arm, for 228710                                                |
| 228455 | 18580 | Knee Lifter Rock Lever Position Spring, for 228709                                               |
| 228476 | 18922 | Screw Driver (Bobbin Case)                                                                       |
| 228707 | 18580 | Knee Lifter Rock Lever Bracket with 200347AL and three wood screws 7/8 in., No. 12, for 228709   |
| 228709 | 18580 | Knee Lifter Rock Lever Bracket 228707 with 228363, 228367, 228386, 228455 and 228713, for 228710 |
| 228710 | 18580 | Knee Lifter Rock Lever complete, Nos. 228364, 228365, 228370, 228388 and 228709                  |
| 228713 | 18580 | Knee Lifter Rock Lever with two 350231C, for 228709                                              |
| 233122 | 16818 | Needle Bar with 200141F                                                                          |
| 233201 | 16820 | " Plate                                                                                          |
| 233202 | 16820 | Throat Plate, for 233204                                                                         |

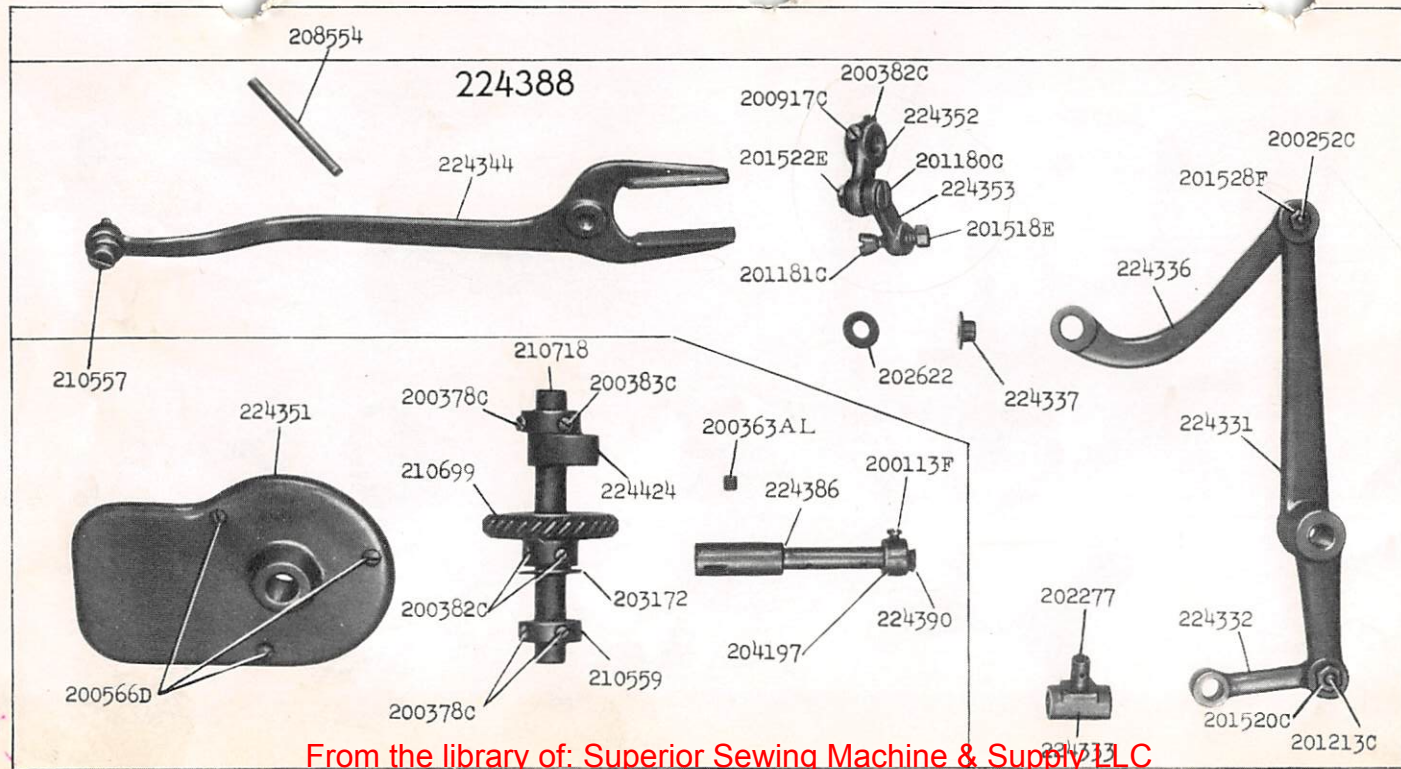
| No.     | Plate | Name                                                                                                                                                                                                                                                                                          |
|---------|-------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 233203  | 16820 | Throat Plate Spring, for 233204                                                                                                                                                                                                                                                               |
| 233204  | 16820 | Throat Plate complete, Nos. 233202, 234452, two 200321D, three each 233203, 233223 and six 200138D                                                                                                                                                                                            |
|         |       | Nos. 233205 to 233211, for 233212                                                                                                                                                                                                                                                             |
| 233205  | 18923 | Foot Lifter Lifting Lever                                                                                                                                                                                                                                                                     |
| 233206  | 18923 | Needle Vibrator Adjustable Stop Spindle                                                                                                                                                                                                                                                       |
| 233207  | 18923 | " " " " "                                                                                                                                                                                                                                                                                     |
|         |       | End Piece with 184C                                                                                                                                                                                                                                                                           |
| 233208  | 18923 | Needle Vibrator Adjustable Stop Spindle Support                                                                                                                                                                                                                                               |
| 233209  | 18923 | Needle Vibrator Stop Segment                                                                                                                                                                                                                                                                  |
| 233210  | 18923 | Presser Foot, for Eyelets 7/64 and 5/32 in. diameter                                                                                                                                                                                                                                          |
| 233211  | 18923 | Presser Foot, for Eyelets 3/16 and 1/4 in. diameter                                                                                                                                                                                                                                           |
| 233212  | 18923 | Madeira Attachment complete, Nos. 1776C, 14376, 200260E, 200262X, 200389C, 200475X, 200492X, 200653C, 202337, 202338, 202346, 202378, 202404, 202554, 206608, 210789, 224391, 224403, 227678, 233205 to 233211, 234446, 234511 to 234513, 238097, 244084, 350226E, Form 2769w and two 200352C |
|         |       | Nos. 233213 to 233216, for 233217                                                                                                                                                                                                                                                             |
| 233213  | 16823 | Cord Guide Arm with 1019C, also for 233221                                                                                                                                                                                                                                                    |
| 233214  | 16823 | Cord Guide Bracket with 291B                                                                                                                                                                                                                                                                  |
| 233215  | 16823 | " " Tube (small) also for 233221                                                                                                                                                                                                                                                              |
| 233216  | 16823 | " " (large) also for 233221                                                                                                                                                                                                                                                                   |
| 233217  | 16823 | Cord Guide complete, Nos. 233213 to 233216                                                                                                                                                                                                                                                    |
|         |       | Nos. 233218 to 233220, for 233221                                                                                                                                                                                                                                                             |
| 233218  | 16823 | Cord Guide Bracket with 291B                                                                                                                                                                                                                                                                  |
| 233219  | 16823 | " " " Spring Plunger                                                                                                                                                                                                                                                                          |
| 233220  | 16823 | " " " Support                                                                                                                                                                                                                                                                                 |
| 233221  | 16823 | Cord Guide (hinged) complete, Nos. 8388, 200352C, 200678F, 233213, 233215, 233216 and 233218 to 233220                                                                                                                                                                                        |
| *233222 | ----- | Bed                                                                                                                                                                                                                                                                                           |
| 233223  | 16820 | Throat Plate Spring Washer, for 233204                                                                                                                                                                                                                                                        |
| 233224  | 18924 | Needle Plate, for use with 233225                                                                                                                                                                                                                                                             |
| 233225  | 18924 | Work Plate, 18-3/8 in. long and 11-3/4 in. wide, for use with 12 in. embroidery hoop                                                                                                                                                                                                          |
| 233226  | 18922 | Embroidery Hoop, 4 inch                                                                                                                                                                                                                                                                       |
| 233227  | 18924 | Bed Slide (front)                                                                                                                                                                                                                                                                             |
| 233228  | 18924 | Throat Plate                                                                                                                                                                                                                                                                                  |
| 233229  | 18918 | Arm Shaft with 224392 and 350431E                                                                                                                                                                                                                                                             |
| 234446  | 18923 | Throat Plate Spur, for Eyelets 7/64 in. diameter, for 233212                                                                                                                                                                                                                                  |
| 234452  | 16820 | Needle Plate Locking Slide, for 233204                                                                                                                                                                                                                                                        |
|         |       | Nos. 234511 to 234513, for 233212                                                                                                                                                                                                                                                             |
| 234511  | 18923 | Throat Plate Spur, for Eyelets 5/32 in. diameter                                                                                                                                                                                                                                              |
| 234512  | 18923 | Throat Plate Spur, for Eyelets 3/16 in. diameter                                                                                                                                                                                                                                              |



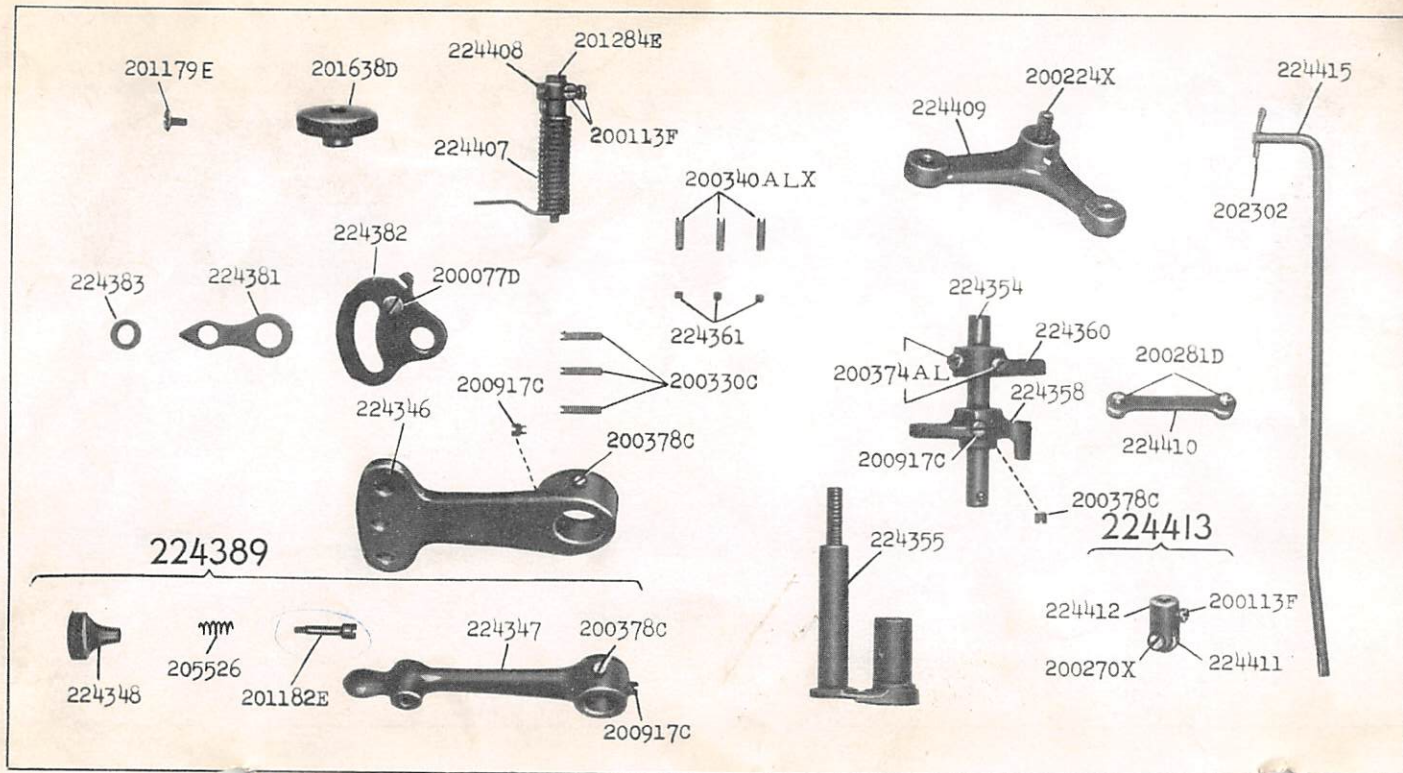
| No.     | Plate | Name                                                                                                                                                                                                                                  |
|---------|-------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 234513  | 18923 | Throat Plate Spur, for Eyelets 1/4 in. diameter                                                                                                                                                                                       |
| 237793  | 18918 | Machine Pulley (aluminum alloy casting) "V" belt groove (outside diam. of belt groove 2.9 in.) with 350540C and 350541C                                                                                                               |
| 238097  | 18923 | Presser Bar 244033 with 201462F, for 233212                                                                                                                                                                                           |
| 240802  | 18918 | Arm Shaft Bushing (back) with 202244                                                                                                                                                                                                  |
| 241443  | 18921 | Thread Controller Spring Stop                                                                                                                                                                                                         |
| 244033  | 18923 | Presser Bar (hollow) for 238097                                                                                                                                                                                                       |
| 244048  | 18921 | Tension Disc (back) for 202409                                                                                                                                                                                                        |
| 244048  | 18921 | Thread Controller Disc, for 224406                                                                                                                                                                                                    |
| 244049  | 18921 | Tension Disc (front) for 202409                                                                                                                                                                                                       |
| 244084  | 18919 | Hook Shaft Bushing Set Screw Packing (fibre)                                                                                                                                                                                          |
| 244084  | 18923 | Presser Bar Thumb Screw Thumb Set Screw Packing (fibre) for 233212                                                                                                                                                                    |
| 259428  | 17853 | Bobbin Winder Brake (leather) for 259462                                                                                                                                                                                              |
| 259429  | 17853 | Bobbin Winder Brake Clamp, for 259462                                                                                                                                                                                                 |
| 259461  | 17853 | Bobbin Winder Pulley with 200380C, for 259462                                                                                                                                                                                         |
| 259462  | 17853 | Universal Bobbin Winder complete, Nos. 200056E, 200082D, 200113F, 200299X, 202478, 225381, 225444, 225453 to 225456, 225458, 225462, 228026, 259428, 259429, 259461, 259662 two each 225459 and wood screws 3/4 in., No. 12, R. H. B. |
| 259660  | 17853 | Bobbin Winder Frame Oil Well Washer, for 225453                                                                                                                                                                                       |
| 259662  | 17853 | Bobbin Winder and Tension Bracket Base, for 259462                                                                                                                                                                                    |
| 263099  | 18920 | Bobbin                                                                                                                                                                                                                                |
| 350226E | 18923 | Needle Vibrator Operating Bell Crank Hinge Screw, for 233212                                                                                                                                                                          |
| 350231C | 18580 | Knee Lifter Rock Lever Extension Set Screw, for 228713                                                                                                                                                                                |
| 350231C | 18580 | Knee Lifter Rock Lever Knee Plate Arm Set Screw, for 228713                                                                                                                                                                           |
| 350231C | 18580 | Knee Lifter Rock Lever Knee Plate Set Screw, for 228364                                                                                                                                                                               |
| 350314F | 18919 | Hook Shaft Position Screw, for 210621                                                                                                                                                                                                 |
| 350419X | 18918 | Machine Pulley Adjusting Screw                                                                                                                                                                                                        |
| 350431E | 18918 | Arm Shaft Oil Packing Stop Screw, for 233229                                                                                                                                                                                          |
| 350540C | 18918 | Machine Pulley Position Screw, for 237793                                                                                                                                                                                             |
| 350541C | 18918 | Machine Pulley Set Screw, for 237793                                                                                                                                                                                                  |

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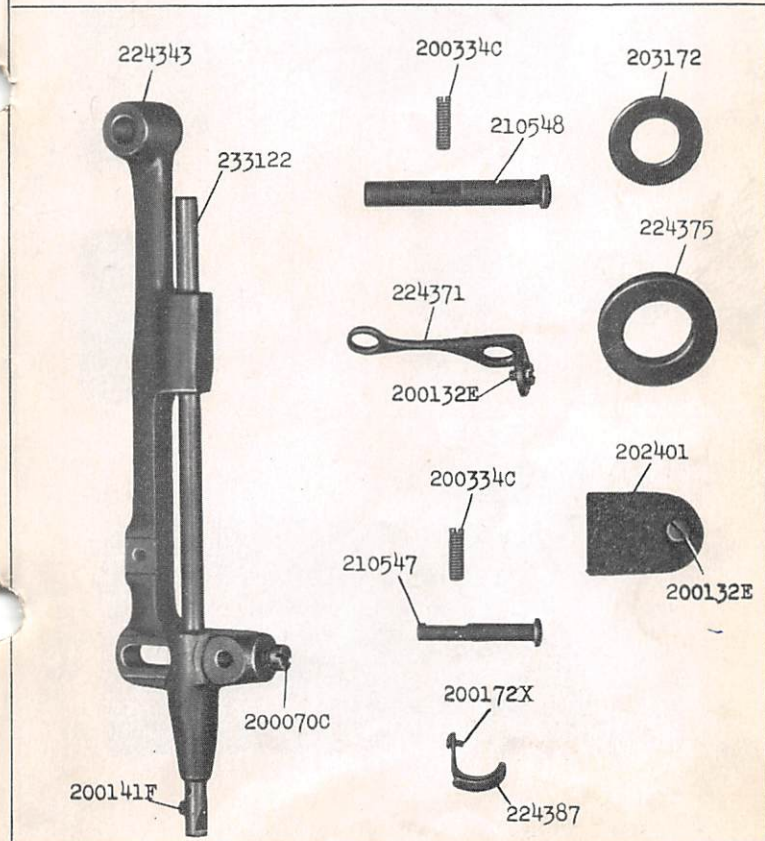
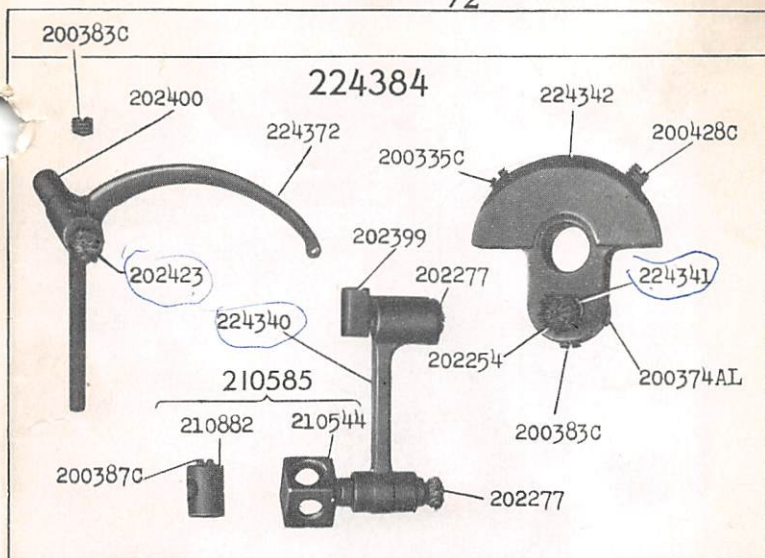
16816 - 1/3

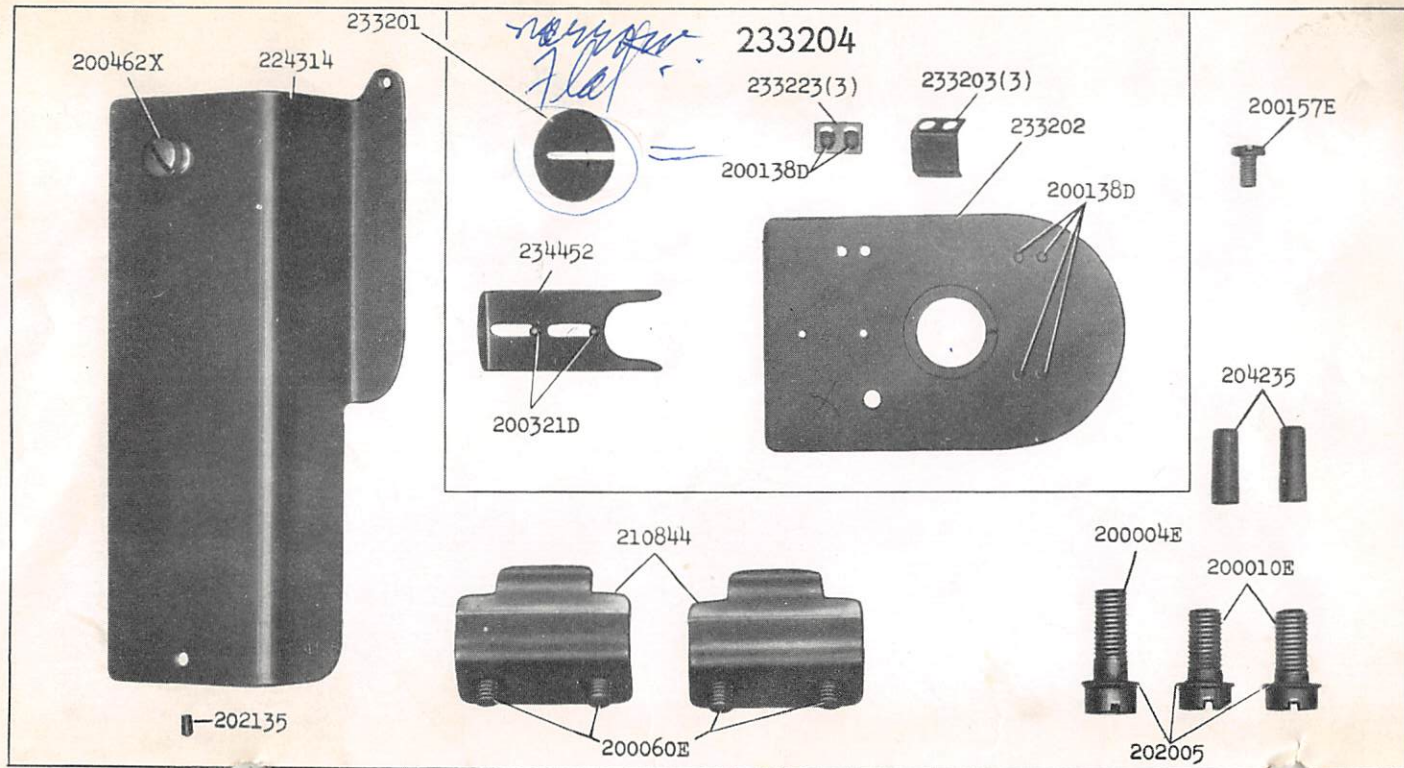


16817 - 1/3



16818 - 1/2

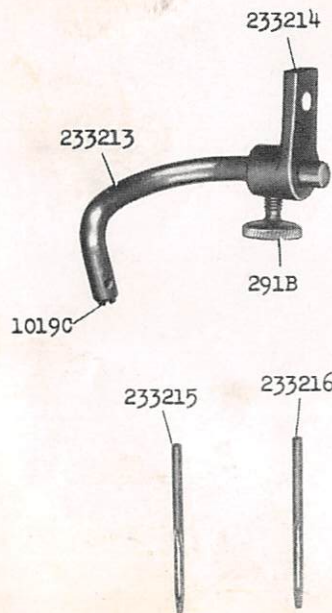




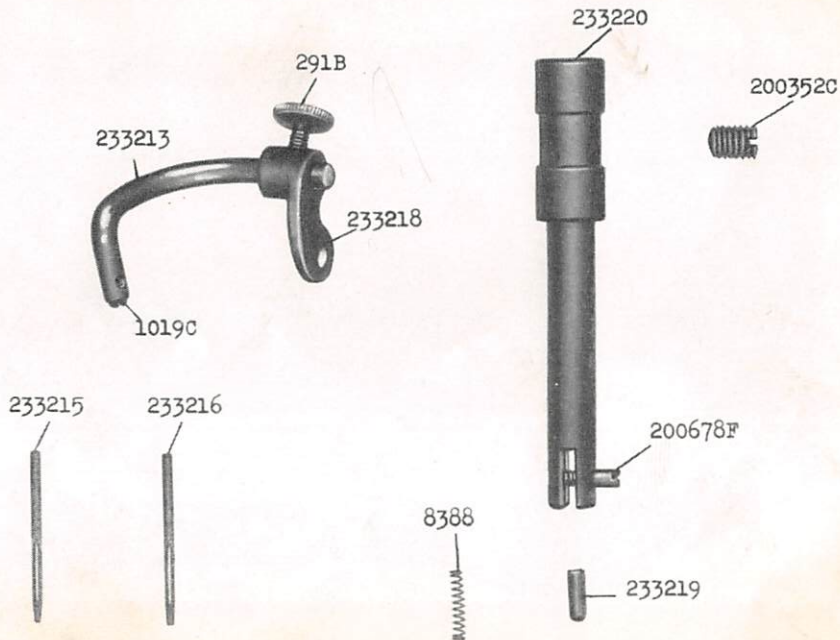
16820 - 1/2

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233217



233221



16823 - 3/4

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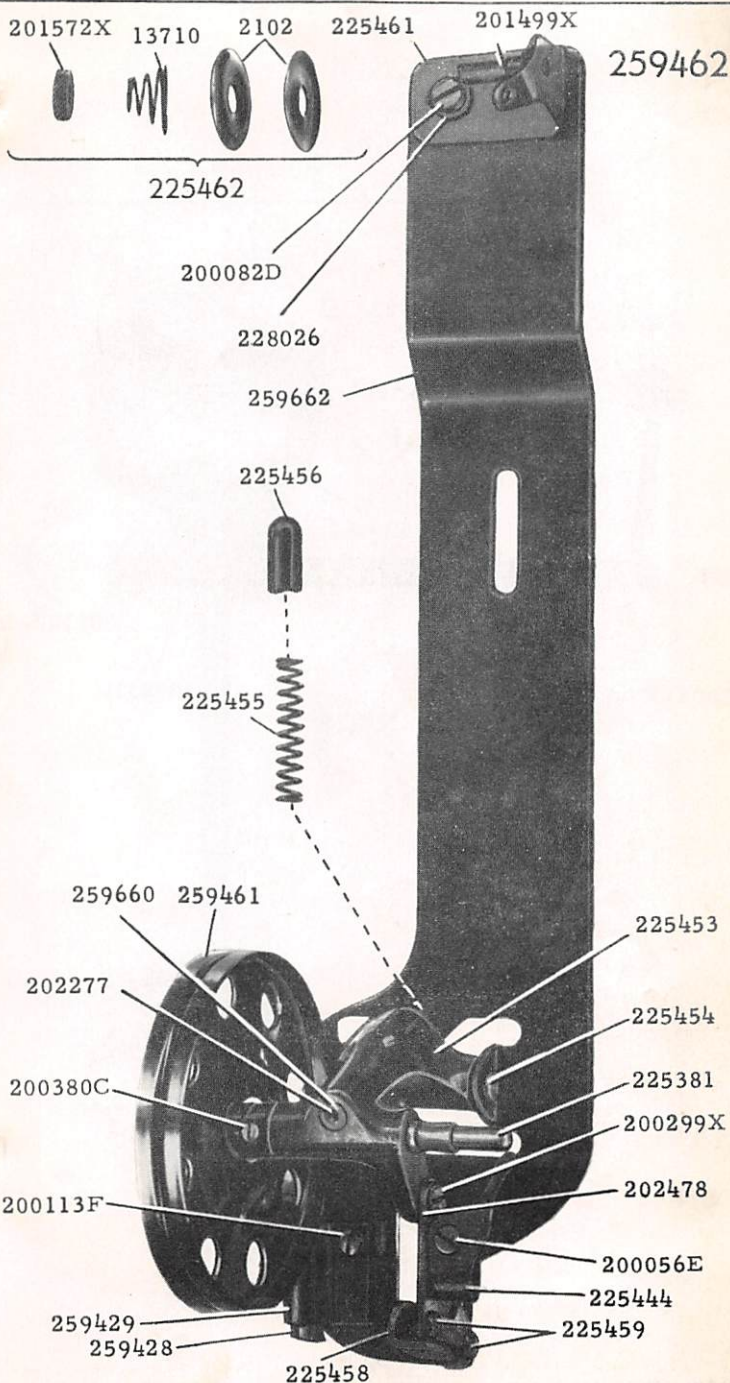
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228213



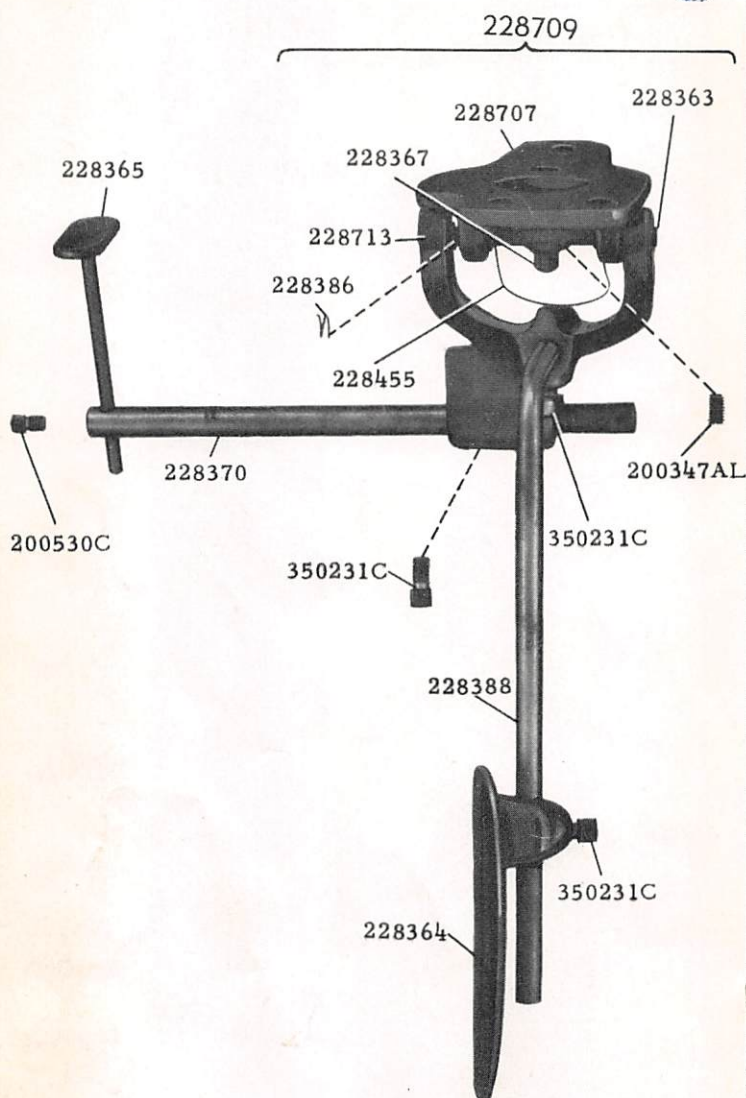


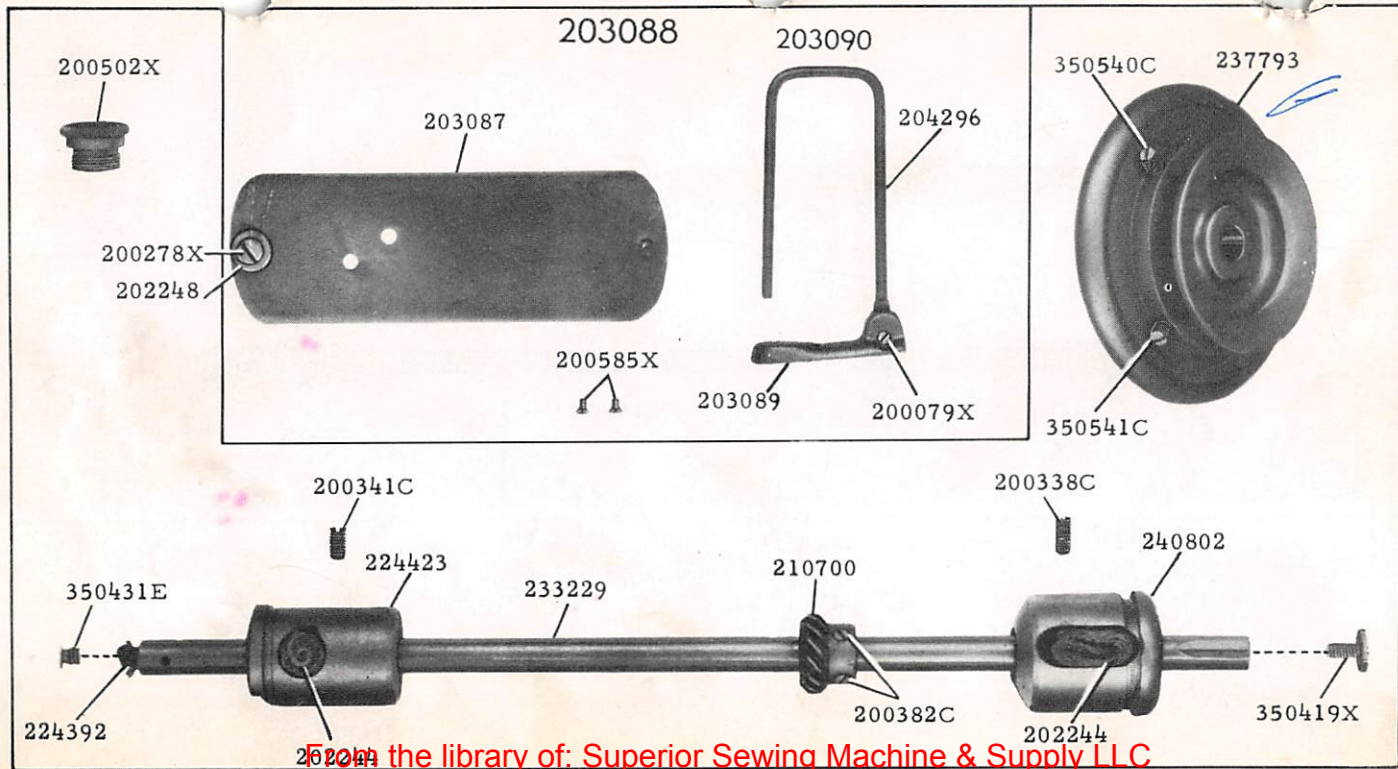
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18580-3/8

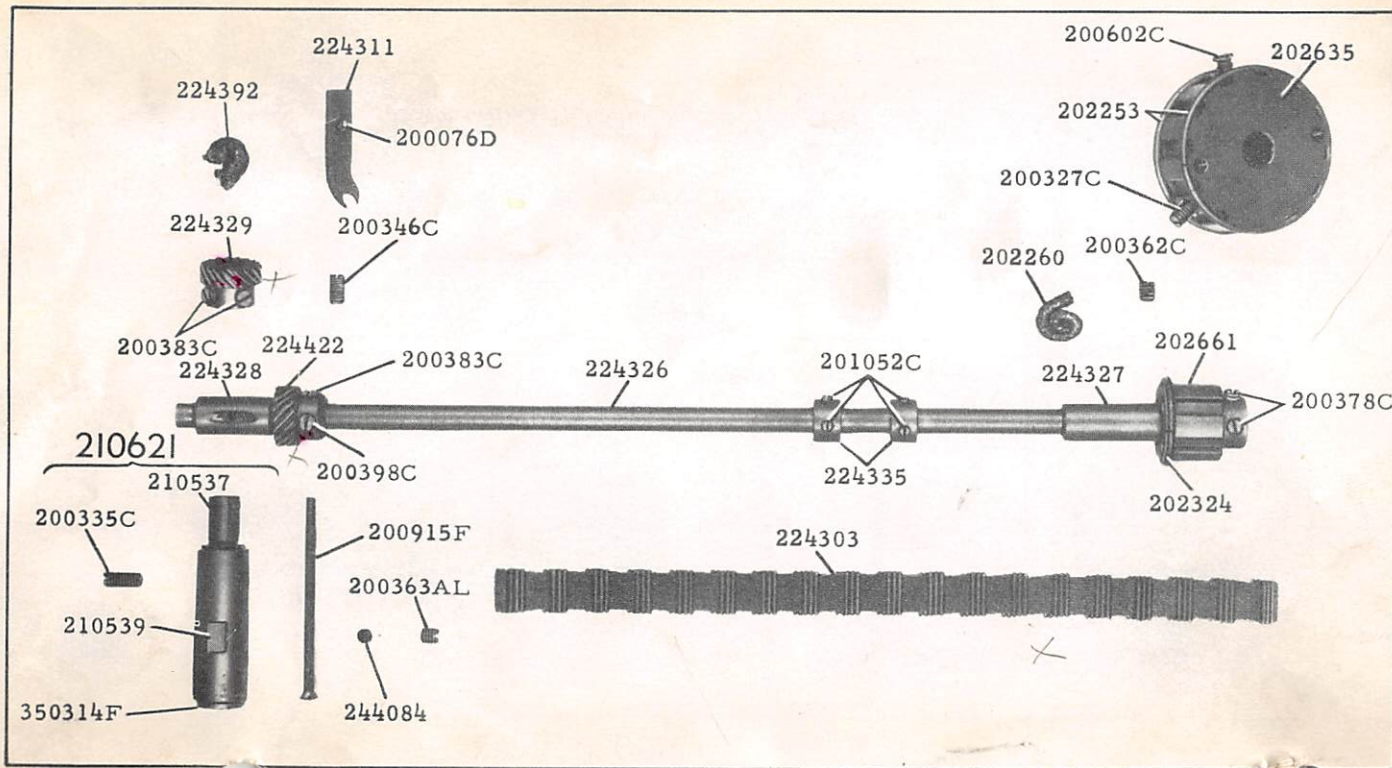
228710





18918 - 3/8





18919 - 3/8



224325

224419

224418

210914

224330

224428

210734

210735

210913

200964C

210736

201016C

224421

200598C

224417

200596F

203101

224416

224339

200145C

263099

18920 - 3/4

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224406

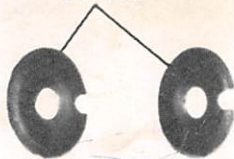
200577AL



224405



244048



224373



201184J



201637X

224376



224374

202409

202405



201572X



202407



202410



200625F



204925

244049



244048

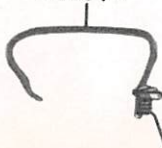


210788



200582X

210592



200582X

200132E



241443



200061ALX



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