

Form 18020  
August, 1935 -  
Printed in U. S. A.

# LIST OF PARTS



## MACHINES

Nos. 175-40 to 175-44

---

THE SINGER MANUFACTURING COMPANY

## INSTRUCTIONS FOR OILING

THE MACHINES SHOULD BE OILED ONCE DAILY

Remove the two knurled thumb nuts and remove the large arm side cover from the front side of the machine.

Apply oil at all oil holes and at all points where parts are in movable contact at the top as well as inside the arm.

Replace the large arm side cover and tighten the two thumb nuts.

Lay the machine on its rear side and apply oil to all oiling points in the machine bed.

Turn down the hinged cover beneath the looper and apply oil to the cam on the looper shaft, then close the hinged cover.

Use only Singer "Manufacturing Sewing Machine Oil (Cloth and Leather)" for general use, or "Manufacturing Sewing Machine Oil (Stainless for White Goods)" where a stainless oil is desired.

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

Needles in Containers marked  
"For Singer Machines"  
are not Singer made needles. 2

## INDEX

|                                           | Page |
|-------------------------------------------|------|
| Accessories.....                          | 20   |
| Belt and Pulley Guard.....                | 21   |
| Machine Base.....                         | 20   |
| Machine No. 175-40.....                   | 7    |
| Machine No. 175-41.....                   | 16   |
| Machine No. 175-42.....                   | 17   |
| Machine No. 175-43.....                   | 18   |
| Machine No. 175-44.....                   | 19   |
| Starting Lever and Foot Lifter Parts..... | 21   |
| Table Belt Guide.....                     | 21   |
| Thread Unwinder.....                      | 22   |

# INSTRUCTIONS FOR ORDERING

7

In ordering from this list, use ONLY the part NUMBER in the FIRST column.

The number stamped on a Sewing Machine Part is in every case the number of the single part only.

Every combination of parts sent out as such has its specific number, which, although not stamped on the parts, 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

B-Polished, Nickel Plated and Buffed

C-Hardened Only

D-Polished Only

E-Soft, Not Polished

F-Hardened and Polished

H-Blued

J-Nickel Plated Only

K-Hardened and Nickel Plated

L-Brass Plated

M-Oxidized

N-Japanned, Dull

P-Japanned, Bright

R-Merlized

T-Copper Plated

T.A-Hardened, Polished, Copper and Nickel Plated and Buffed

T.B-Copper and Nickel Plated and Polished

T.J-Copper and Nickel Plated Only

T.K-Hardened, Copper and Nickel Plated

T.M-Copper Plated and Oxidized

T.L-Copper and Brass Plated

U-Zinc Plated

V-Silver Plated

W-Polished and Nickel Plated

Y-Black Nickel Plated Only

Z-Chromium Plated

Z.B-Polished, Nickel Plated, Buffed and Chromium Plated

Z.J-Nickel and 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, 50001 to 51500 and 140001 to 142000 are Screw Numbers

1501 to 1800 and 51501 to 51800 are Nut Numbers

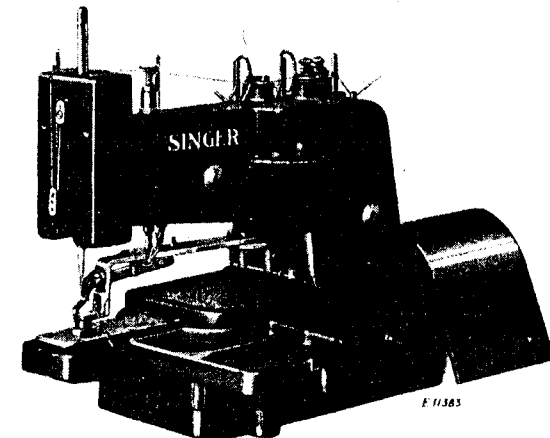
1801 to 2000 and 51801 to 52000 are Roller Numbers

2001 to 50000 and 52001 to 140001 and 142000 to 190000 are Sewing Machine Parts, 190001 and upward are numbers of Electrical Parts

The figures in the second column refer only to the plates, illustrating the parts, and are NOT TO BE USED in ordering.

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

## LIST OF PARTS COMPLETE FOR



MACHINE NO. 175-40

FOR SEWING ALL KINDS OF MILITARY EYELET SHANK BUTTONS ON UNIFORMS. METAL EYELET SHANK BUTTONS SEWED THROUGH AND THROUGH AND BLIND STITCHED. MAKES EIGHTEEN STITCHES, INCLUDING KNOTTING STITCH. HAS NEEDLE BAR VIBRATION ONLY. LENGTH OF NEEDLE BAR STROKE 1-7/8". EQUIPPED WITH SPECIAL SHANK BUTTON CLAMP FOR 18 TO 45 LIGNE BUTTONS, FITTED WITH A METAL BUTTON SHANK FOOT, BLIND STITCH WORK SUPPORT BLOCK, AND ONE THROUGH AND THROUGH WORK SUPPORT BLOCK. SPEED 1000 R.P.M.

| No.     | Plate | Name                                                           |
|---------|-------|----------------------------------------------------------------|
| *175001 | ----- | Arm with 15404 and two 15405.....                              |
| 175002  | 22007 | " Dowel Pin.....                                               |
| *175003 | ----- | " Rock Shaft.....                                              |
| 175340  | 22009 | " " " 175003 with 175007 and 175341.....                       |
| 175005  | 22008 | Arm Rock Shaft Crank (back) with 1177E, 152LJ and 140016E..... |
| 1177E   | 22008 | Arm Rock Shaft Crank (back) Clamping Screw                     |
| 140016E | 22008 | " " " " " Position Screw                                       |
| 152LJ   | 22008 | " " " " " " "                                                  |
|         |       | Lock Nut.....                                                  |
| *175341 | ----- | Arm Rock Shaft Crank (front).....                              |
| 175007  | 22007 | " " " " " Pin.....                                             |

| No.     | Plate | Name                                     |
|---------|-------|------------------------------------------|
| 140017E | 22007 | Arm Screw (long).....                    |
| 670E    | 22017 | " " (short).....                         |
| 175008  | 22007 | " Side Cover (left).....                 |
| 230J    | 22007 | " " " " Screw.....                       |
| 175009  | ----- | " " " (right).....                       |
| 175010  | 22009 | " " " " Screw Stud (long)...             |
| 175011  | 22009 | " " " " " (short)...                     |
| 51649E  | 22007 | " " " " " Lock Nut.                      |
| 51650B  | 22007 | " " " " " Thumb Nut.....                 |
| *175012 | ----- | Bed.....                                 |
| 175013  | 22009 | " End Cover (bottom).....                |
| 175014  | 22007 | " " " " Hinge Pin (left)...              |
| 175015  | 22007 | " " " " " (right)...                     |
| 175016  | 22007 | " " " " " Spring.....                    |
| 175017  | 22007 | " " " " " Hook.....                      |
| 175361  | 22011 | " Top Cover (back) with two 175019.....  |
| 175019  | 22007 | " " " " " Oil Tube.....                  |
| 140018W | 22008 | " " " " " Screw.....                     |
| 175020  | 22009 | " " " (front).....                       |
| 140019W | 22007 | " " " " " Screw.....                     |
| 175362  | 22009 | Button Clamp Arm.....                    |
| 175363  | 22016 | " " " " Hinge Bracket.....               |
| 175034  | 22009 | " " " " " Pin.....                       |
| 175035  | 22009 | " " " " " Bracket.....                   |
| 160J    | 22007 | " " " " " " Screw.                       |
| 175036  | 22009 | " " " " " " Shim                         |
|         |       | (.003 in. thick).....                    |
| 175037  | ----- | Button Clamp Arm Hinge Pin Bracket Shim  |
|         |       | (.005 in. thick).....                    |
| 175038  | ----- | Button Clamp Arm Hinge Pin Bracket Shim  |
|         |       | (.007 in. thick).....                    |
| 175039  | ----- | Button Clamp Arm Hinge Pin Bracket Shim  |
|         |       | (.015 in. thick).....                    |
| 140072C | 22008 | Button Clamp Arm Screw.....              |
| 175032  | 22007 | " " " " " Washer.....                    |
| 175041  | 22022 | " " " " " Lifting Arm with 190J, 190K    |
|         |       | and 1259C.....                           |
| 1259C   | 22015 | Button Clamp Lifting Arm Set Screw.....  |
| 175364  | 22009 | " " " " " Chain 4 7/8 in. long.          |
| 203K    | 22008 | " " " " " Screw (lower)...               |
| 190K    | 22015 | " " " " " " (upper)...                   |
| 190J    | 22015 | " " " " " " Lock                         |
|         |       | Screw.....                               |
| 175043  | 22016 | Button Clamp Lifting and Thread Pull-off |
|         |       | Holder Shaft.....                        |
| 175044  | 22007 | Button Clamp Lifting and Thread Pull-off |
|         |       | Holder Shaft Collar with 458C.....       |
| 458C    | 22015 | Button Clamp Lifting and Thread Pull-off |
|         |       | Holder Shaft Collar Set Screw.....       |

| No.     | Plate | Name                                        |
|---------|-------|---------------------------------------------|
| 175045  | 22016 | Button Clamp Lifting and Thread Pull-off    |
|         |       | Holder Shaft Spring.....                    |
| 175046  | 22008 | Button Clamp Lifting and Thread Pull-off    |
|         |       | Holder Shaft Spring Collar with 458C...     |
| 458C    | 22015 | Button Clamp Lifting and Thread Pull-off    |
|         |       | Holder Shaft Spring Collar Set Screw...     |
| 175047  | 22016 | Button Clamp Lifting Rod.....               |
| 175048  | 22016 | " " " " " Arm with 160E and                 |
|         |       | 140022E.....                                |
| 160E    | 22007 | Button Clamp Lifting Rod Arm Clamping       |
|         |       | Screw.....                                  |
| 140022E | 22007 | Button Clamp Lifting Rod Arm Position       |
|         |       | Screw.....                                  |
| 175049  | 22008 | Button Clamp Lifting Rod Arm Stop Plate...  |
| 160J    | 22007 | " " " " " " " " " Screw                     |
| 175032  | 22007 | " " " " " " " " " Washer.....               |
| 42830   | 22020 | Button Clamp Lifting Rod Cotter Pin.....    |
| 175050  | 22022 | " " " " " " " " " Spring.....               |
| 175051  | 22013 | " " " " " " " " " Stop Col-                 |
|         |       | lar with 160C.....                          |
| 160C    | 22007 | Button Clamp Lifting Rod Spring Stop Col-   |
|         |       | lar Set Screw.....                          |
| 175365  | 22016 | Button Clamp Presser Bar.....               |
| 175053  | 22008 | " " " " " " " " " Collar with 458C.         |
| 458C    | 22015 | " " " " " " " " " Set Screw.                |
| 175054  | 22012 | " " " " " " " " " Screw Bearing....         |
| 175055  | 22022 | " " " " " " " " " Spring.....               |
| 140023W | 22008 | " " " " " " " " " Pressure Regulating Thumb |
|         |       | Screw.....                                  |
| 1722J   | 22008 | Button Clamp Pressure Regulating Thumb      |
|         |       | Screw Lock Nut.....                         |
| 175366  | 22012 | Button Finger.....                          |
| 140085C | 22013 | " " " " " " " " " Hinge Screw.....          |
| 175367  | 22013 | " " " " " " " " " Lever.....                |
| 140064C | 22013 | " " " " " " " " " Adjusting Screw.....      |
| 1735J   | 22008 | " " " " " " " " " Nut...                    |
| 140065K | 22013 | " " " " " " " " " Hinge Screw.....          |
| 175368  | 22010 | " " " " " " " " " Bracket                   |
|         |       | with 37164.....                             |
| 1492J   | 22015 | Button Finger Lever Hinge Screw Bracket     |
|         |       | Screw.....                                  |
| 37164   | 22013 | Button Finger Lever Hinge Screw Bracket     |
|         |       | Steady Pin.....                             |
| 175369  | 22013 | Button Finger Lever Screw Eye.....          |
| 175370  | 22013 | " " " " " " " " " Bushing.....              |
| 175207  | 22026 | " " " " " " " " " Spring                    |
| 190J    | 22015 | " " " " " " " " " Screw.....                |
| 1735J   | 22008 | " " " " " " " " " Nut...                    |

| No.     | Plate | Name                                                                                                                                                    |
|---------|-------|---------------------------------------------------------------------------------------------------------------------------------------------------------|
| 175371  | 22010 | Button Holder.....                                                                                                                                      |
| 190J    | 22015 | " " Screw.....                                                                                                                                          |
| 175372  | 22012 | " " Spring.....                                                                                                                                         |
| 175373  | ----- | Button Clamp complete, Nos. 1492J, 140085C, 175207, 175362, 175363, 175366 to 175372 and two each 190J, 1735J, 140064C, 140065K 140072C and 175032..... |
| 175060  | 22011 | Face Plate.....                                                                                                                                         |
| 175061  | ----- | " " 175060 with 185J and 175062, 175063 and 202098.....                                                                                                 |
| 120J    | 22008 | Face Plate Screw.....                                                                                                                                   |
| 175062  | 22024 | " " Thread Guide (lower) Plate....                                                                                                                      |
| 185J    | 22015 | " " " " " " " Screw                                                                                                                                     |
| 175063  | 22024 | " " " " " " " " Spacing Collar.....                                                                                                                     |
| 202098  | 22024 | Face Plate Thread Guide (lower) Roller....                                                                                                              |
| 175065  | 22024 | " " " " " " Pin.....                                                                                                                                    |
| 175066  | 22008 | " " " " " (upper).....                                                                                                                                  |
| 175085  | 22015 | Looper.....                                                                                                                                             |
| 175086  | 22016 | " Driving Shaft.....                                                                                                                                    |
| 175087  | 22022 | " " " Bushing.....                                                                                                                                      |
| 51183E  | 22015 | " " " Clamping Screw                                                                                                                                    |
| *175088 | ----- | " " " Crank with two 435C..                                                                                                                             |
| 175525  | 22016 | " " " 175088 with 175090.....                                                                                                                           |
| 175089  | 22015 | Looper Driving Shaft Crank Connecting Link                                                                                                              |
| *175090 | ----- | " " " " " " " Hinge Stud.....                                                                                                                           |
| 435C    | 22015 | Looper Driving Shaft Crank Set Screw.....                                                                                                               |
| 175091  | 22015 | " " " Gear.....                                                                                                                                         |
| 175092  | 22020 | " " " Pin.....                                                                                                                                          |
| 458C    | 22015 | " Set Screw.....                                                                                                                                        |
| 175093  | 22022 | " Shaft with 458C.....                                                                                                                                  |
| *175095 | ----- | " Crank with two 140027C.....                                                                                                                           |
| 175526  | 22016 | " " " 175095 with 175133.....                                                                                                                           |
| 140027C | 22020 | " " " Set Screw.....                                                                                                                                    |
| *175133 | ----- | " " " Stud.....                                                                                                                                         |
| 175096  | 22015 | Machine Rest Stud.....                                                                                                                                  |
| 453C    | 22015 | " " " Set Screw.....                                                                                                                                    |
| 175396  | 22016 | Needle Bar (hollow) with 200125F, 200175D and 204250.....                                                                                               |
| 175348  | 22018 | Needle Bar Connecting Link.....                                                                                                                         |
| 140023C | 22015 | " " " " Hinge Screw....                                                                                                                                 |
| 1722J   | 22008 | " " " " " " Nut.                                                                                                                                        |
| 175099  | 22015 | " " " " " Stud with 160E.....                                                                                                                           |
| 160E    | 22007 | Needle Bar Connecting Link Hinge Stud Clamping Screw.....                                                                                               |

| No.     | Plate | Name                                                                              |
|---------|-------|-----------------------------------------------------------------------------------|
| 175100  | 22015 | Needle Bar Connecting Link Hinge Stud Thread Guide Plate.....                     |
| 1492J   | 22015 | Needle Bar Connecting Link Hinge Stud Thread Guide Plate Screw.....               |
| 175101  | 22015 | Needle Bar Connecting Link Hinge Stud Thread Guide Roller.....                    |
| 175349  | 22018 | Needle Bar Connecting Stud (lower).....                                           |
| 1681J   | 22008 | " " " " " " Nut....                                                               |
| 51652J  | 22008 | " " " " " " Lock Nut.....                                                         |
| 175103  | 22007 | Needle Bar Connecting Stud (lower) Washer.                                        |
| 175104  | 22018 | " " " " " (upper).....                                                            |
| 1681J   | 22008 | " " " " " " Nut.....                                                              |
| 51652J  | 22008 | " " " " " " Lock Nut.....                                                         |
| 175103  | 22007 | Needle Bar Connecting Stud (upper) Washer.                                        |
| 175105  | 22018 | " " Eccentric with 140027C.....                                                   |
| 175106  | 22018 | " " " Connecting Rod with 1521J, 140024E, 175535 and two 140029E...               |
| 140029E | 22015 | Needle Bar Eccentric Connecting Rod Cap Screw.....                                |
| 140024E | 22008 | Needle Bar Eccentric Connecting Rod Clamping Screw.....                           |
| 1521J   | 22008 | Needle Bar Eccentric Connecting Rod Clamping Screw Nut.....                       |
| 140031C | 22015 | Needle Bar Eccentric Connecting Rod Hinge Screw.....                              |
| 51653E  | 22015 | Needle Bar Eccentric Connecting Rod Hinge Screw Nut.....                          |
| 175535  | 22007 | Needle Bar Eccentric Connecting Rod Oil Pad (felt).....                           |
| 175108  | 22017 | Needle Bar Eccentric Pawl.....                                                    |
| 175109  | ----- | Needle Bar Eccentric Pawl complete, Nos. 175108, 175110 to 175112 and 175114..... |
| 175110  | 22017 | Needle Bar Eccentric Pawl Bracket.....                                            |
| 134E    | 22017 | " " " " " " Screw...                                                              |
| 175111  | 22019 | " " " " " " Steady Pin.....                                                       |
| 175112  | 22019 | Needle Bar Eccentric Pawl Hinge Pin.....                                          |
| 175113  | 22019 | " " " " " Spring.....                                                             |
| 175114  | 22019 | " " " " " Stud.....                                                               |
| 175119  | 22017 | " " " " " Pin.....                                                                |
| 140027C | 22020 | " " " " " Set Screw.....                                                          |
| 204250  | 22020 | " " Thread Guide.....                                                             |
| 200175D | 22020 | " " " " " Screw.....                                                              |
| 175358  | 22014 | " " Vibrating Cam.....                                                            |
| 175294  | 22014 | " " " " " Driving Worm....                                                        |
| 175069  | 22024 | " " " " " " Pin.                                                                  |

| No.     | Plate | Name                                                                                         |
|---------|-------|----------------------------------------------------------------------------------------------|
| 175295  | 22014 | Needle Bar Vibrating Cam Driving Worm Wheel with two 140026C.....                            |
| 140026C | 22007 | Needle Bar Vibrating Cam Driving Worm Wheel Set Screw.....                                   |
| 175374  | 22016 | Needle Bar Vibrating Cam Driving Worm Wheel Shaft.....                                       |
| 175119  | 22017 | Needle Bar Vibrating Cam Pin.....                                                            |
| 175120  | 22018 | " " " Lever.....                                                                             |
| 175121  | 22018 | " " " Adjusting Bracket with 186C, 458C and 175124.....                                      |
| 140032C | 22017 | Needle Bar Vibrating Lever Adjusting Bracket Hinge Screw.....                                |
| 458C    | 22015 | Needle Bar Vibrating Lever Adjusting Bracket Hinge Screw Set Screw.....                      |
| 175122  | 22019 | Needle Bar Vibrating Lever Adjusting Bracket Hinge Screw Slide.....                          |
| 51654C  | 22017 | Needle Bar Vibrating Lever Adjusting Bracket Lock Nut.....                                   |
| 175123  | 22017 | Needle Bar Vibrating Lever Adjusting Bracket Lock Nut Screw Stud.....                        |
| 186C    | 22019 | Needle Bar Vibrating Lever Adjusting Bracket Lock Nut Screw Stud Set Screw..                 |
| 175124  | 22019 | Needle Bar Vibrating Lever Adjusting Bracket Lock Nut Screw Stud Set Screw Locking Disc..... |
| 175125  | 22017 | Needle Bar Vibrating Lever Adjusting Bracket Lock Nut Washer.....                            |
| 175126  | 22022 | Needle Bar Vibrating Lever Arm with 51923.                                                   |
| 140033C | 22017 | " " " " Hinge Screw                                                                          |
| 51923   | 22007 | " " " " Roller and Screw Stud.....                                                           |
| 140024E | 22008 | Needle Bar Vibrating Lever Arm Screw.....                                                    |
| 175032  | 22007 | " " " " Washer                                                                               |
| 140034C | 22017 | " " " " Hinge Screw....                                                                      |
| 140035C | 22017 | " " " " Lock Screw.....                                                                      |
| 175127  | 22019 | Needle Bar Vibrating Lever Hinge Screw Slide.....                                            |
| *175116 | ----- | Needle Guard.....                                                                            |
| 175128  | 22022 | " " 175116 with 175131 and 175136                                                            |
| 175129  | ----- | " " 175128 with 140036D and 175137                                                           |
| 175130  | 22019 | " " Cam with two 1259C.....                                                                  |
| 1259C   | 22015 | " " Set Screw.....                                                                           |
| 175131  | 22019 | " " Pin.....                                                                                 |
| 175132  | 22017 | " " Oscillating Crank with 896E and 175134.....                                              |
| 896E    | 22017 | Needle Guard Oscillating Crank Clamping Screw.....                                           |
| 175016  | 22007 | Needle Guard Oscillating Crank Spring.....                                                   |

| No.     | Plate | Name                                                                     |
|---------|-------|--------------------------------------------------------------------------|
| 175134  | 22017 | Needle Guard Oscillating Crank Spring Hook (crank end).....              |
| 175135  | 22019 | Needle Guard Oscillating Crank Spring Hook (bed end).....                |
| *175136 | ----- | Needle Guard Shaft.....                                                  |
| 175094  | 22015 | " " " Bushing.....                                                       |
| 458C    | 22015 | " " " Set Screw.....                                                     |
| 175137  | 22007 | " " Thread Finger.....                                                   |
| 140036D | 22007 | " " " Screw.....                                                         |
| 175375  | 22016 | " Plate with two 175378.....                                             |
| 140019F | 22007 | " " Screw.....                                                           |
| 175376  | 22010 | " " Work Support with 230J, for blind stitch.....                        |
| 175377  | 22010 | Needle Plate Work Support with 230J, for through and through stitch..... |
| 230J    | 22007 | Needle Plate Work Support Screw.....                                     |
| 175378  | 22013 | " " " Stud.....                                                          |
| 200125F | 22020 | " Set Screw.....                                                         |
| 175379  | 22013 | Plug for Feed Plate Carrier Regulator Shaft Hole.....                    |
| *175139 | ----- | Pulley.....                                                              |
| 175140  | 22021 | " 175139 with 175147.....                                                |
| 140037C | 22020 | " Engaging Screw.....                                                    |
| 51655J  | 22020 | " " " Nut.....                                                           |
| 175141  | 22020 | " Oil Pad (wick).....                                                    |
| 175142  | 22021 | " Shaft.....                                                             |
| 175143  | 22015 | " " Gear.....                                                            |
| 175144  | 22020 | " " " Pin.....                                                           |
| 175145  | 22022 | " Shifter.....                                                           |
| 175146  | 22021 | " " Holder with 51649J and 140078C.....                                  |
| 140078C | 22020 | Pulley Shifter Holder Set Screw.....                                     |
| 51649J  | 22007 | " " " " Lock Nut..                                                       |
| *175147 | ----- | " " Ring (V grooved).....                                                |
| 1178E   | 22020 | " " Screw.....                                                           |
| 175148  | 22022 | Starting Crank with 1747J and 140039E.....                               |
| 140039E | 22008 | " " Adjusting Screw.....                                                 |
| 1747J   | 22008 | " " " Nut.....                                                           |
| 175149  | 22020 | " " Pin.....                                                             |
| 175150  | 22022 | Stop Dog.....                                                            |
| 175151  | 22022 | " " Cushion Spring.....                                                  |
| 175152  | 22021 | " " " Holder with 50581C and two 140040C.....                            |
| 50581C  | 22020 | Stop Dog Cushion Spring Holder Set Screw..                               |
| 140040C | 22020 | " " " Set Screw.....                                                     |
| 175119  | 22017 | " " Pin.....                                                             |
| 175153  | 22018 | " Motion Retaining Collar.....                                           |
| 160J    | 22007 | " " " Screw.....                                                         |
| 175154  | 22020 | " " " Stud...                                                            |

| No.     | Plate | Name                                                                             |
|---------|-------|----------------------------------------------------------------------------------|
| 882C    | 22020 | Stop Motion Retaining Collar Screw Stud Set Screw.....                           |
| 175155  | 22021 | Stop Motion Shaft.....                                                           |
| 175156  | 22022 | " " " Spring.....                                                                |
| 175157  | 22021 | " " " " Collar with 140041C.....                                                 |
| 140041C | 22020 | Stop Motion Shaft Spring Collar Set Screw.....                                   |
| 175158  | 22022 | " " Trip.....                                                                    |
| 175159  | 22021 | " " " Block with 882C.....                                                       |
| 140042C | 22020 | " " " Hinge Screw.....                                                           |
| 51649E  | 22007 | " " " " Nut....                                                                  |
| 175113  | 22019 | " " " Spring.....                                                                |
| 175229  | 22020 | " " " Point.....                                                                 |
| 160J    | 22007 | " " " Screw.....                                                                 |
| 175032  | 22007 | " " " Washer.....                                                                |
| 175160  | 22023 | Tension (automatic) Disc.....                                                    |
| 175161  | 22024 | " " " Position Pin....                                                           |
| 1560C   | 22024 | " " " Regulating Thumb Nut..                                                     |
| 175162  | 22022 | " " " Releasing Cam with two 140027C.....                                        |
| 140027C | 22020 | Tension (automatic) Releasing Cam Set Screw.....                                 |
| 175522  | 22023 | Tension (automatic) Releasing Disc.....                                          |
| 175163  | 22021 | " " " Rod.....                                                                   |
| 152LJ   | 22008 | " " " Adjust-<br>ing Nut.....                                                    |
| 152LJ   | 22008 | Tension (automatic) Releasing Rod Adjust-<br>ing Nut Lock Nut.....               |
| 175164  | 22021 | Tension (automatic) Releasing Rod Spring..                                       |
| 175165  | 22018 | " " " Wearing<br>Sleeve.....                                                     |
| 140043C | 22023 | Tension (automatic) Screw Stud.....                                              |
| 175166  | ----- | " " " 140043C with<br>1560C.....                                                 |
| 125314  | 22023 | Tension (automatic) Spring.....                                                  |
| 175167  | 22023 | " " Thread Eyelet.....                                                           |
| 175168  | ----- | Tension (automatic) complete, Nos. 125314,<br>175166, 175522 and two 175160..... |
| 175160  | 22023 | Tension (stationary) Disc.....                                                   |
| 175161  | 22024 | " " " Position Pin....                                                           |
| 1560C   | 22024 | " " " Regulating Thumb Nut.                                                      |
| 140044C | 22023 | " " " Screw Stud.....                                                            |
| 175169  | ----- | " " " 140044C<br>with 1560C.....                                                 |
| 13710   | 22023 | Tension (stationary) Spring.....                                                 |
| 175170  | ----- | Tension (stationary) complete, Nos. 13710,<br>175169 and two 175160.....         |
| 175171  | 22023 | Thread Eyelet (back).....                                                        |
| 175172  | 22023 | " " (front).....                                                                 |

| No.     | Plate | Name                                                        |
|---------|-------|-------------------------------------------------------------|
| 175173  | 22023 | Thread Nipper Head.....                                     |
| 175174  | 22024 | " " Plate.....                                              |
| 160J    | 22007 | " " " Screw.....                                            |
| 175175  | 22024 | " " " Washer.....                                           |
| 140045K | 22023 | " " Releasing Head Screw.....                               |
| 175176  | 22022 | " " " Lever.....                                            |
| 140046C | 22024 | " " " Hinge Screw.                                          |
| 175177  | 22023 | " " " Rod.....                                              |
| 175178  | ----- | " " " 175177 with<br>175173.....                            |
| 175179  | 22023 | Thread Nipper Releasing Rod Spring (lower)                  |
| 175180  | 22024 | " " " Washer.....                                           |
| 175181  | 22024 | Thread Nipper Releasing Rod Spring (upper)                  |
| 175182  | 22024 | " " " Collar<br>with 465C.....                              |
| 465C    | 22024 | Thread Nipper Releasing Rod Spring Collar<br>Set Screw..... |
| 175183  | 22023 | Thread Nipper Releasing Screw Stud.....                     |
| 1722J   | 22008 | " " " " " Nut....                                           |
| 175184  | 22024 | " " " " " Washer.....                                       |
| 175185  | 22024 | Thread Nipper Releasing Stud.....                           |
| 175161  | 22024 | " " Thread Guide Pin.....                                   |
| 175186  | 22022 | " Pull-off (back).....                                      |
| 175187  | 22024 | " " " Holder with 160C<br>and 1120C.....                    |
| 160C    | 22007 | Thread Pull-off (back) Holder Set Screw...                  |
| 1120C   | 22024 | " " " Set Screw.....                                        |
| 175188  | 22022 | " " (front).....                                            |
| 175189  | 22024 | " " " Holder with 1120C<br>and 175190.....                  |
| 175190  | 22024 | Thread Pull-off (front) Holder Stop Pin...                  |
| 1120C   | 22024 | " " " Set Screw.....                                        |
| 175191  | 22024 | " " " Stop Collar with 160C and<br>175192.....              |
| 160C    | 22007 | Thread Pull-off Stop Collar Set Screw....                   |
| 175192  | 22024 | " " " Stop Pin.....                                         |
| 175167  | 22023 | " " Thread Eyelet.....                                      |
| *15404  | ----- | Trade Mark.....                                             |
| 15405   | ----- | " " Rivet.....                                              |

## MACHINE NO. 175-41

FOR SEWING ALL KINDS OF MILITARY EYELET SHANK BUTTONS ON UNIFORMS WITH STAY BUTTONS, IN ONE OPERATION. METAL EYELET SHANK BUTTONS ARE SEWED THROUGH AND THROUGH WITH STAY BUTTONS. MAKES SIXTEEN STITCHES, INCLUDING KNOTTING STITCH. HAS NEEDLE BAR VIBRATION ONLY. LENGTH OF NEEDLE BAR STROKE 1-7/8". EQUIPPED WITH SPECIAL SHANK BUTTON CLAMP FOR 18 TO 45 LIGNE BUTTONS, FITTED WITH A METAL BUTTON SHANK FOOT AND WORK SUPPORT BLOCK FOR STAY BUTTONS 18 TO 22 LIGNE. SPEED 1000 R.P.M.

This Machine is the same as the 175-40 Machine, with the following exceptions:

| No.    | Plate | Name                                                                                                                |
|--------|-------|---------------------------------------------------------------------------------------------------------------------|
| 175380 | 22010 | Needle Plate Stay Button Holder and Work Support with 23QJ, for 18 ligne buttons in place of 175376 and 175377..... |
| 175381 | 22010 | Needle Plate Stay Button Holder and Work Support with 23QJ, for 19 ligne buttons in place of 175376 and 175377..... |
| 175382 | 22010 | Needle Plate Stay Button Holder and Work Support with 23QJ, for 20 ligne buttons in place of 175376 and 175377..... |

## MACHINE NO. 175-42

FOR SEWING SHANK BUTTONS ON RAINCOATS, SPORTS APPAREL, ETC. LEATHER SHANK BUTTONS SEWED THROUGH AND THROUGH WITH STAY BUTTONS IN ONE OPERATION. MAKES EIGHTEEN STITCHES, INCLUDING KNOTTING STITCH. HAS NEEDLE BAR VIBRATION ONLY. LENGTH OF NEEDLE BAR STROKE 1-7/8". EQUIPPED WITH A SPECIAL SHANK BUTTON CLAMP FOR 18 TO 45 LIGNE BUTTONS, FITTED WITH A LEATHER BUTTON SHANK FOOT AND WORK SUPPORT BLOCK FOR STAY BUTTONS 18 TO 22 LIGNE. SPEED 1000 R.P.M.

This Machine is the same as the 175-40 Machine, with the following exceptions:

| No.    | Plate | Name                                                                                                                                                                                         |
|--------|-------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 175383 | 22010 | Button Holder, in place of 175371.....                                                                                                                                                       |
| 175384 | 22012 | " " Spring, in place of 175372.                                                                                                                                                              |
| 175385 | ----- | Button Clamp complete, Nos. 1492J, 140085C, 175207, 175362, 175363, 175366 to 175370, 175383, 175384 and two each 19QJ, 1735J, 140064C, 140065K, 140072C and 175032, in place of 175373..... |

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

Needles in Containers marked "For Singer Machines" are not Singer made needles. 2

## MACHINE NO. 175-43

FOR SEWING SELF-SHANK BUTTONS ON SHIRTS, SWEATERS, CHILDREN'S KNIT GOODS, SPORTWEAR, ETC. FOR METAL, PEARL, BONE OR COMPOSITION SELF-SHANK BUTTONS. MAKES TWELVE STITCHES, INCLUDING KNOTTING STITCH. HAS NEEDLE BAR VIBRATION ONLY. LENGTH OF NEEDLE BAR STROKE 1-7/8". EQUIPPED WITH A SPECIAL SHANK BUTTON CLAMP FOR BUTTONS FROM 14 TO 28 LIGNE, FITTED WITH A SPECIAL OPENING FOOT TO CONFORM WITH SHAPE OF BUTTONS, AND WORK SUPPORT BLOCK FOR BLIND STITCHING ONLY. SPEED 1000 R.P.M.

This Machine is the same as the 175-40 Machine, with the following exceptions:

| No.     | Plate | Name                                                                                                                                                                                    |
|---------|-------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| *175386 | ----- | Bed, in place of 175012.....                                                                                                                                                            |
| 175387  | 22013 | " Work Support.....                                                                                                                                                                     |
| 175388  | ----- | " " " 175387 with 175389, in place of 175376 and 175377.....                                                                                                                            |
| 175389  | 22012 | Bed Work Support Holder with 140061J.....                                                                                                                                               |
| 140061J | 22013 | " " " " Clamping Screw....                                                                                                                                                              |
| 140066J | 22008 | " " " " Guide Screw.....                                                                                                                                                                |
| 51656J  | 22019 | " " " " Lock Nut.....                                                                                                                                                                   |
| 175390  | 22013 | " " " " " " Screw Stud.....                                                                                                                                                             |
| 175032  | 22007 | Bed Work Support Holder Lock Nut Washer...                                                                                                                                              |
| 175391  | 22012 | Button Finger, in place of 175366.....                                                                                                                                                  |
| 175392  | 22010 | " Holder, 7/32 in. hole, in place of 175371.....                                                                                                                                        |
| 175393  | 22010 | Button Holder, 5/16 in. hole, in place of 175371.....                                                                                                                                   |
| 175394  | ----- | Button Clamp complete, Nos.1492J, 140085C, 175207,175362,175363,175367 to 175370, 175391 to 175393 and two each 190J, 1735J,140064C,140065K,140072C and 175032, in place of 175373..... |
| 175118  | 22014 | Needle Bar Vibrating Cam, in place of 175358.....                                                                                                                                       |
| 175068  | 22014 | Needle Bar Vibrating Cam Driving Worm, in place of 175294.....                                                                                                                          |
| 175070  | 22014 | Needle Bar Vibrating Cam Driving Worm Wheel with two 140026C, in place of 175295.....                                                                                                   |

## MACHINE NO. 175-44

FOR SEWING SELF-SHANK BUTTONS ON SHIRTS, SWEATERS, CHILDREN'S KNIT GOODS, SPORTWEAR, ETC. FOR METAL, PEARL BONE OR COMPOSITION SELF-SHANK BUTTONS. MAKES SIXTEEN STITCHES, INCLUDING KNOTTING STITCH. HAS NEEDLE BAR VIBRATION ONLY. LENGTH OF NEEDLE BAR STROKE 1-7/8". EQUIPPED WITH SPECIAL SHANK BUTTON CLAMP FOR BUTTONS FROM 20 TO 45 LIGNE, FITTED WITH SPECIAL OPENING FOOT TO CONFORM WITH SHAPE OF BUTTONS AND WORK SUPPORT BLOCK FOR BLIND STITCHING ONLY. SPEED 1000 R.P.M.

This Machine is the same as the 175-40 Machine, with the following exceptions:

| No.     | Plate | Name                                                                                                                                                                                         |
|---------|-------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| *175386 | ----- | Bed, in place of 175012.....                                                                                                                                                                 |
| 175387  | 22013 | " Work Support.....                                                                                                                                                                          |
| 175388  | ----- | " " " 175387 with 175399 (adjustable) in place of 175376 and 175377                                                                                                                          |
| 175389  | 22012 | Bed Work Support Holder with 140061J.....                                                                                                                                                    |
| 140061J | 22013 | " " " " Clamping Screw....                                                                                                                                                                   |
| 140066J | 22008 | " " " " Guide Screw.....                                                                                                                                                                     |
| 51656J  | 22019 | " " " " Lock Nut.....                                                                                                                                                                        |
| 175390  | 22013 | " " " " " " Screw Stud                                                                                                                                                                       |
| 175032  | 22007 | " " " " " " Washer...                                                                                                                                                                        |
| 175391  | 22012 | Button Finger, in place of 175366.....                                                                                                                                                       |
| 175398  | 22010 | " Holder, 3/8 in. hole, in place of 175371.....                                                                                                                                              |
| 175399  | 22010 | Button Holder, 15/32 in. hole, in place of 175371.....                                                                                                                                       |
| 175400  | ----- | Button Clamp complete, Nos. 1492J,140085C, 175207,175362,175363,175367 to 175370, 175391,175398,175399 and two each 190J, 1735J,140064C,140065K,140072C and 175032C, in place of 175373..... |
| 175296  | 22014 | Needle Bar Vibrating Cam, in place of 175358.....                                                                                                                                            |

## ACCESSORIES

| No.    | Plate | Name                                                      |
|--------|-------|-----------------------------------------------------------|
| 175193 | 22025 | Button Tray.....                                          |
| 175194 | 22025 | " " Hinge Screw Stud.....                                 |
| 160C   | 22007 | " " " " " Set Screw for<br>Machine Base.....              |
| 175195 | 22025 | Hand Wheel with 455C, for turning machine<br>by hand..... |
| 455C   | 22026 | Hand Wheel Set Screw.....                                 |
| 120342 | 22025 | Oiler (copper plated) with 120343.....                    |
| 120343 | 22025 | " Spout, 3 1/2 in. long.....                              |
| 26026  | 22025 | Screw Driver.....                                         |
| 175196 | 22025 | " Eye.....                                                |
| 175197 | 22025 | Wrench for 140026.....                                    |
| 175198 | 22025 | " " 140027.....                                           |

## MACHINE BASE

| No.     | Plate | Name                                                                                                                                                     |
|---------|-------|----------------------------------------------------------------------------------------------------------------------------------------------------------|
| 175199  | ----- | Machine Base with 160C.....                                                                                                                              |
| 175200  | 22027 | Machine Base complete, Nos. 145C, 1637J,<br>140047C, 140048C, 175199, 175208 to 175210<br>175424, 175425 and four wood screws 7/8<br>in. No. 14 R.H..... |
| 140047C | 22019 | Machine Locating Screw Stud.....                                                                                                                         |
| *175201 | ----- | " Lock Plate.....                                                                                                                                        |
| 175115  | 22026 | " " " 175201 with 175203,<br>175205 and 175206.....                                                                                                      |
| *175202 | ----- | Machine Lock Plate Position Stud.....                                                                                                                    |
| 175203  | 22026 | " " " " 175202<br>with 175204.....                                                                                                                       |
| *175204 | ----- | Machine Lock Plate Position Stud Washer...                                                                                                               |
| 175205  | 22026 | " " Stud.....                                                                                                                                            |
| 51656J  | 22019 | " " Thumb Nut.....                                                                                                                                       |
| 175206  | 22026 | " " " " Screw Stud.....                                                                                                                                  |
| 175207  | 22026 | " " " " Spring.....                                                                                                                                      |
| 175536  | 22026 | " " " " Washer.....                                                                                                                                      |
| 175425  | ----- | Machine Lock complete, Nos. 51656J, 175115,<br>175207 and 175536.....                                                                                    |
| 175208  | 22026 | Machine Starting Lever.....                                                                                                                              |
| 140048C | 22026 | " " " Hinge Screw.....                                                                                                                                   |
| 175209  | 22026 | " " " Spring.....                                                                                                                                        |
| 175210  | 22026 | " " " " Hook (long).                                                                                                                                     |
| 175424  | 22026 | " " " " " (short)                                                                                                                                        |
| 145C    | 22026 | " " " Stop Screw.....                                                                                                                                    |
| 1637J   | 22026 | " " " " " Nut.....                                                                                                                                       |

## BELT AND PULLEY GUARD

(HINGED)

| No.    | Plate | Name                                                                                                                  |
|--------|-------|-----------------------------------------------------------------------------------------------------------------------|
| 175211 | ----- | Belt and Pulley Guard.....                                                                                            |
| 175212 | 22027 | " " " " Hinge.....                                                                                                    |
| 175213 | ----- | " " " " " Rivet.....                                                                                                  |
| 175214 | 22027 | Belt and Pulley Guard complete, Nos. 175211<br>two 175212, six 175213 and eight wood<br>screws 3/4 in. No. 9 R.H..... |

## STARTING LEVER AND FOOT LIFTER PARTS

| No.    | Plate | Name                                                                                                   |
|--------|-------|--------------------------------------------------------------------------------------------------------|
| 175215 | ----- | Foot Lifter Chain, 37 in. long, with two<br>56865.....                                                 |
| 56865  | 22019 | Foot Lifter Chain Hook.....                                                                            |
| 175216 | 22027 | " " Treadle.....                                                                                       |
| 175217 | 22026 | " " " Hinge Pin.....                                                                                   |
| 175218 | 22027 | " " " Stand.....                                                                                       |
| 175219 | 22027 | Foot Lifter Treadle complete, Nos. 175216<br>to 175218 and two wood screws 1 in. No.<br>14 F.H.....    |
| 175215 | ----- | Starting Lever Chain, 37 in. long with two<br>56865.....                                               |
| 56865  | 22019 | Starting Lever Chain Hook.....                                                                         |
| 175216 | 22027 | " " Treadle.....                                                                                       |
| 175217 | 22026 | " " " Hinge Pin.....                                                                                   |
| 175218 | 22027 | " " " Stand.....                                                                                       |
| 175219 | 22027 | Starting Lever Treadle complete, Nos.<br>175216 to 175218 and two wood screws 1<br>in. No. 14 F.H..... |

## TABLE BELT GUIDE

| No.     | Plate | Name                                |
|---------|-------|-------------------------------------|
| 175220  | 22027 | Belt Guide (left) with 140035C..... |
| 175221  | 22027 | " " (right) with 140035C.....       |
| 140035C | 22017 | " " Set Screw.....                  |
| 175222  | 22027 | Pulley.....                         |
| 175223  | ----- | " Shaft.....                        |
| 175224  | 22027 | " " 175223 with 1259E and 175227.   |
| 175225  | 22027 | " " Bracket with 1259C.....         |

## TABLE BELT GUIDE

| No.    | Plate | Name                                                                                                                              |
|--------|-------|-----------------------------------------------------------------------------------------------------------------------------------|
| 1259E  | 22015 | Pulley Shaft Oil Plug Screw.....                                                                                                  |
| 175227 | 22027 | " " " Wick.....                                                                                                                   |
| 1259C  | 22015 | " " Set Screw.....                                                                                                                |
| 175228 | 22027 | Table Belt Guide complete, Nos. 175220,<br>175221,175224,175225 and two each<br>175222 and wood screws 7/8 in. No. 14<br>R.H..... |

## THREAD UNWINDER

(FOR ONE SPOOL)

| No.     | Plate | Name                                                                                                                                      |
|---------|-------|-------------------------------------------------------------------------------------------------------------------------------------------|
| 225259  | 22028 | Spool Rest with 201018C.....                                                                                                              |
| 150203  | 22028 | " " Cushion (felt).....                                                                                                                   |
| 225388  | 22028 | " " Rod.....                                                                                                                              |
| 200383C | 22019 | " " Set Screw.....                                                                                                                        |
| 201018C | 22019 | " " Set Screw.....                                                                                                                        |
| 202490  | 22028 | " Stand with 200383C.....                                                                                                                 |
| 225391  | 22028 | Thread Guide.....                                                                                                                         |
| 201696J | 22019 | " " Lock Nut.....                                                                                                                         |
| 225324  | 22028 | " " Rod with 208E and 225322.....                                                                                                         |
| 208E    | 22019 | " " Screw.....                                                                                                                            |
| 225322  | 22019 | " " Washer.....                                                                                                                           |
| 225260  | 22028 | Thread Unwinder complete, Nos. 150203,<br>201696J, 202490, 225259, 225324, 225388,<br>225391 and three wood screws 7/8 in. No.<br>12..... |
| 27739   | 22028 | Thread Cone (wood) for large cones.....                                                                                                   |
| 225390  | 22028 | " " Holder for inverted cones.....                                                                                                        |

Note: Nos. 27739 and 225390 are used with, but not included in 225260.

**ILLUSTRATIONS OF PARTS  
FOR  
MACHINES  
Nos. 175-40 to 175-44**

**PLATE 22007—FULL SIZE**

140017  
PAGE 8



670  
PAGE 8



140026  
PAGE 12



160  
PAGE 9



175002  
PAGE 7



175016  
PAGE 8



175535  
PAGE 11



51923  
PAGE 12



175007  
PAGE 7



140022  
PAGE 9



140019  
PAGE 8



175008  
PAGE 8



175137  
PAGE 13



230  
PAGE 8



140036  
PAGE 13



175014  
PAGE 8



175015  
PAGE 8



175103  
PAGE 11



175017  
PAGE 8



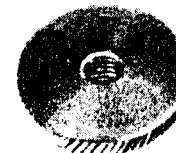
175019  
PAGE 8



175012  
PAGE 8



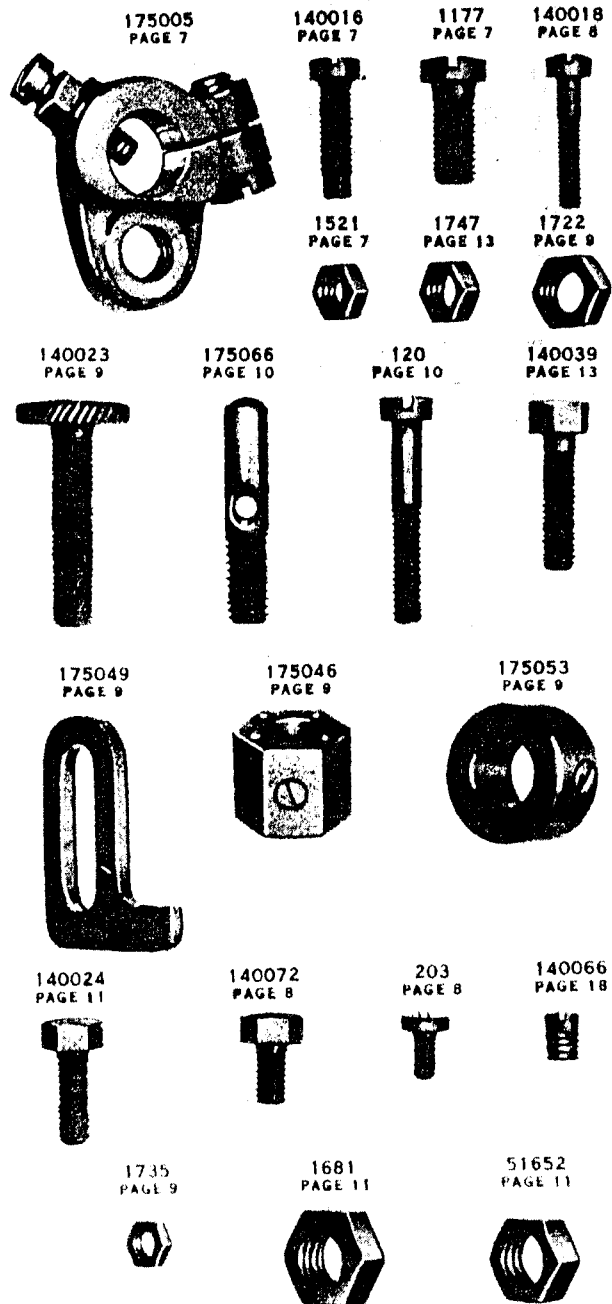
51650  
PAGE 8



175044  
PAGE 8



# PLATE 22008—FULL SIZE



# PLATE 22009—ONE-HALF SIZE

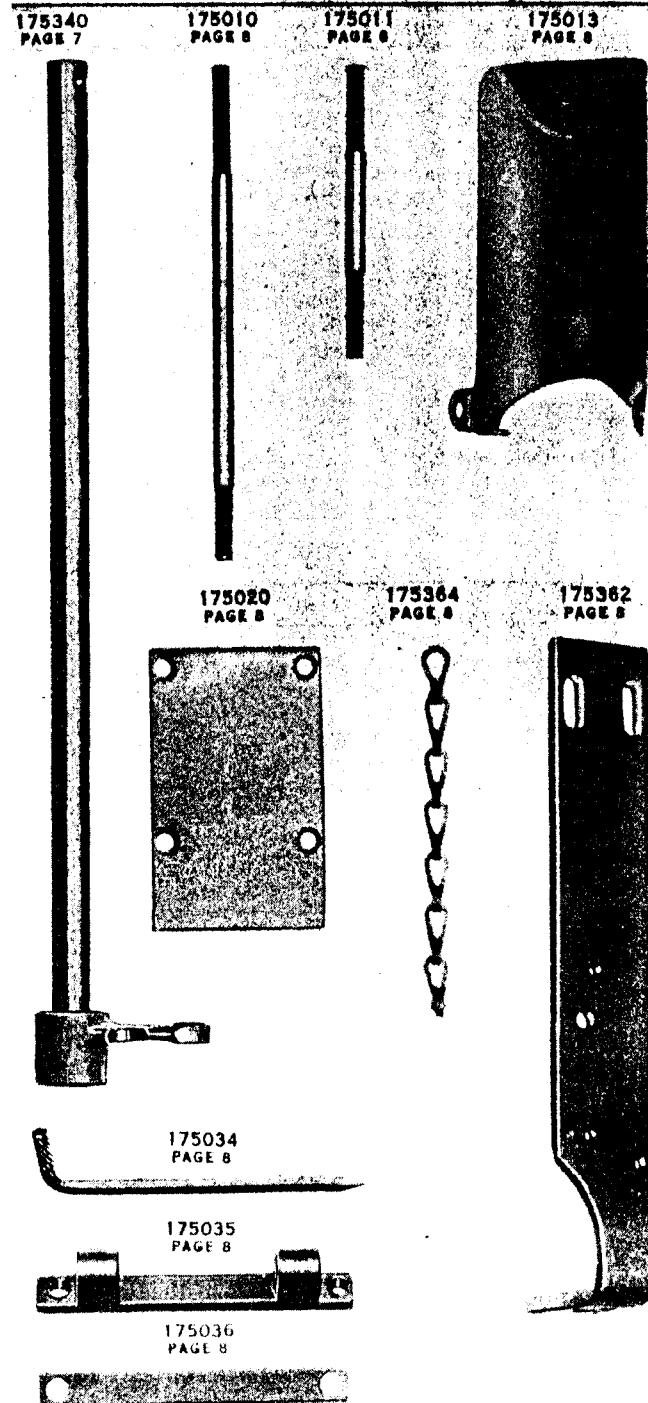
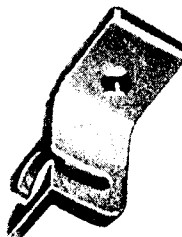
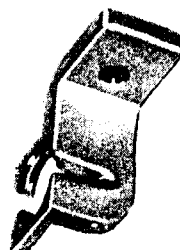


PLATE 22010—FULL SIZE

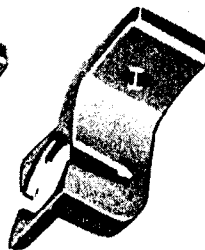
175393  
PAGE 18



175398  
PAGE 19



175399  
PAGE 19



175380  
PAGE 16



175381  
PAGE 16



175382  
PAGE 16



175376  
PAGE 12



175377  
PAGE 13



175368  
PAGE 12



175371  
PAGE 10



175383  
PAGE 17



175392  
PAGE 15

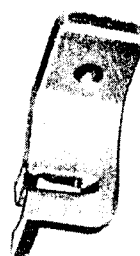
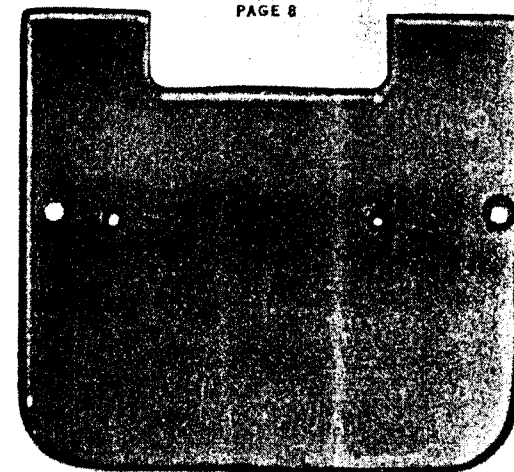
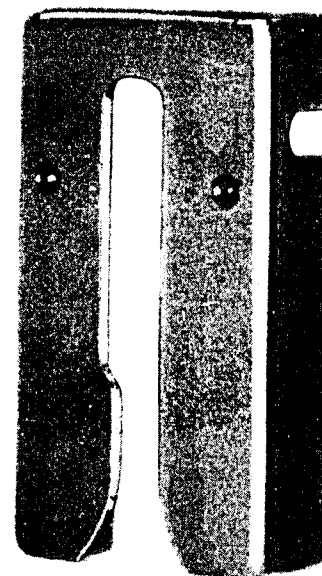


PLATE 22011—ONE-HALF SIZE

175361  
PAGE 8

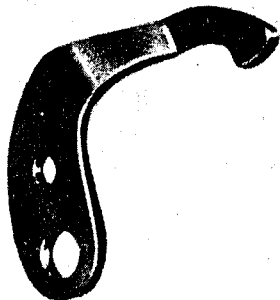


175060  
PAGE 10

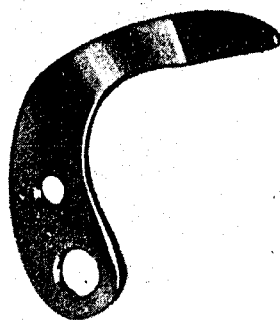


# PLATE 22012—FULL SIZE

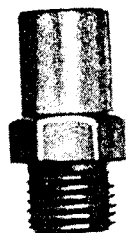
175391  
PAGE 18



175366  
PAGE 9



175054  
PAGE 9



175389  
PAGE 18



175384  
PAGE 17



175372  
PAGE 10

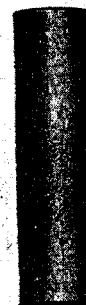


# PLATE 22013—FULL SIZE

175367  
PAGE 9



175379  
PAGE 13



175387  
PAGE 18



175051  
PAGE 9



175369  
PAGE 9



175390  
PAGE 18



175370  
PAGE 9



140064  
PAGE 9



140061  
PAGE 18



140085  
PAGE 9



140065  
PAGE 9



175378  
PAGE 13

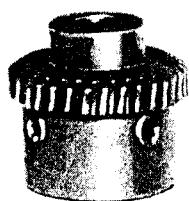


37164  
PAGE 9

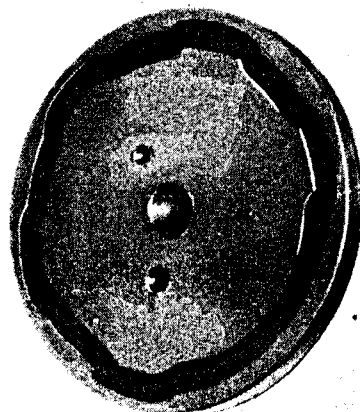


# PLATE 22014—ONE-HALF SIZE

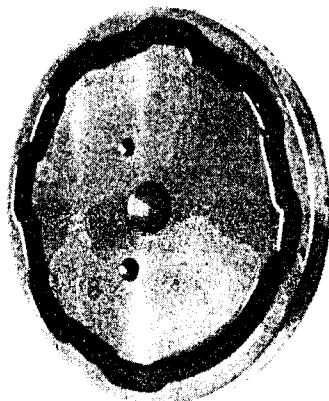
175295  
PAGE 12



175118  
PAGE 18



175358  
PAGE 11



175068  
PAGE 18



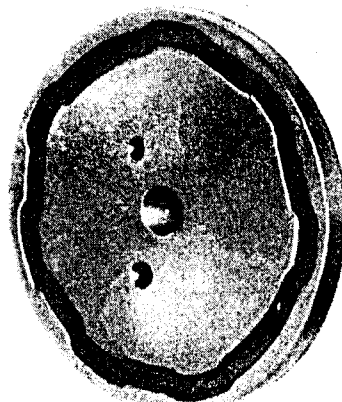
175294  
PAGE 11



175070  
PAGE 18



175296  
PAGE 19



# PLATE 22015—FULL SIZE

140029  
PAGE 11



190  
PAGE 8



1492  
PAGE 11



185  
PAGE 10



435  
PAGE 10



1259  
PAGE 8



458  
PAGE 9



175101  
PAGE 11



175089  
PAGE 10



140031  
PAGE 11



51183  
PAGE 10



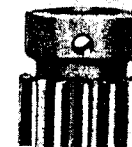
140028  
PAGE 10



175091  
PAGE 10



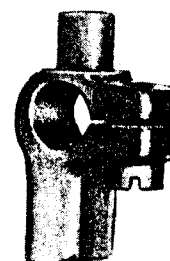
175143  
PAGE 13



175096  
PAGE 10



175099  
PAGE 10



175094  
PAGE 13



175085  
PAGE 10



175100  
PAGE 11



51653  
PAGE 11



# PLATE 22016—ONE-HALF SIZE

175374  
PAGE 12



175045  
PAGE 9



175048  
PAGE 9



175043  
PAGE 8



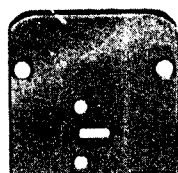
175396  
PAGE 10



175525  
PAGE 10



175375  
PAGE 13



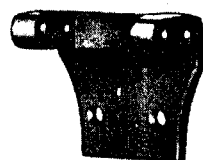
175047  
PAGE 9



175526  
PAGE 10



175363  
PAGE 8



175365  
PAGE 9



175086  
PAGE 10

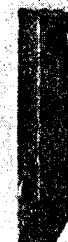


# PLATE 22017—FULL SIZE

175110  
PAGE 11



175108  
PAGE 11



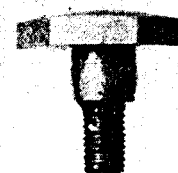
140033  
PAGE 12



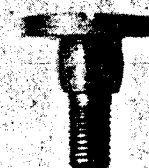
134  
PAGE 11



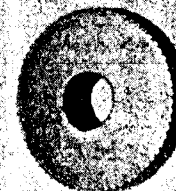
140032  
PAGE 12



140034  
PAGE 12



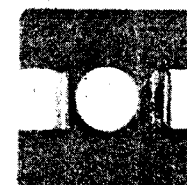
31654  
PAGE 12



175132  
PAGE 12



175125  
PAGE 12



140035  
PAGE 12



175123  
PAGE 12



175119  
PAGE 11



896  
PAGE 12

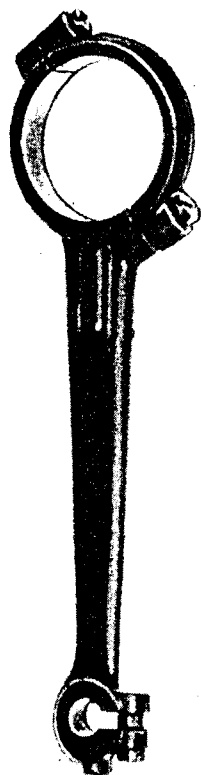


175134  
PAGE 13



# PLATE 22018—ONE-HALF SIZE

175106  
PAGE 11



175120  
PAGE 12



175105  
PAGE 11



175121  
PAGE 12



175153  
PAGE 13



175104  
PAGE 10



175349  
PAGE 10



175348  
PAGE 10

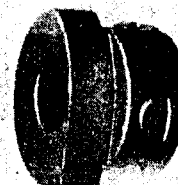


175165  
PAGE 14



# PLATE 22019—FULL SIZE

175130  
PAGE 12



175122  
PAGE 12



175127  
PAGE 12



175114  
PAGE 11



175113  
PAGE 11



175111  
PAGE 11



175186  
PAGE 12



175112  
PAGE 11



175131  
PAGE 12



175135  
PAGE 13



175124  
PAGE 12



51656  
PAGE 20



140047  
PAGE 20



56865  
PAGE 21



201696  
PAGE 22



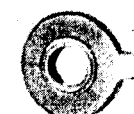
201018  
PAGE 22



200383  
PAGE 22



225322  
PAGE 22

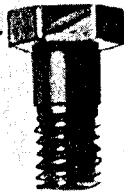


208  
PAGE 22



# PLATE 22020—FULL SIZE

140037  
PAGE 13



140078  
PAGE 13



1178  
PAGE 13



50581  
PAGE 13



140042  
PAGE 14



175141  
PAGE 13



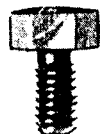
175149  
PAGE 13



42830  
PAGE 9



140041  
PAGE 14



175154  
PAGE 13



175144  
PAGE 13



175229  
PAGE 14



51655  
PAGE 13



200125  
PAGE 13



140040  
PAGE 13



882  
PAGE 14



140027  
PAGE 10



204250  
PAGE 11



200175  
PAGE 11



175092  
PAGE 10



# PLATE 22021—ONE-HALF SIZE

175164  
PAGE 14



175163  
PAGE 14



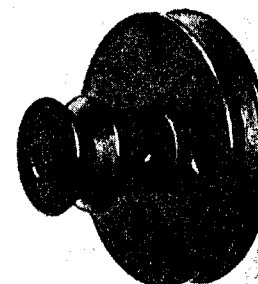
175155  
PAGE 14



175142  
PAGE 13



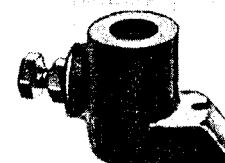
175140  
PAGE 13



175152  
PAGE 13



175146  
PAGE 13



175157  
PAGE 14

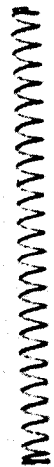


175159  
PAGE 14



# PLATE 22022-ONE-HALF SIZE

175050  
PAGE 9



175055  
PAGE 9



175093  
PAGE 10



175128  
PAGE 12



175126  
PAGE 12



175041  
PAGE 8



175162  
PAGE 14



175151  
PAGE 13



175148  
PAGE 13



175087  
PAGE 10



175156  
PAGE 14



175150  
PAGE 13



175158  
PAGE 14



175145  
PAGE 13



175176  
PAGE 15



175188  
PAGE 15



175186  
PAGE 15



# PLATE 22023-FULL SIZE

175177  
PAGE 13



175172  
PAGE 14



175167  
PAGE 14



175171  
PAGE 14



175183  
PAGE 15



13710  
PAGE 14



125314  
PAGE 14



140043  
PAGE 14



140044  
PAGE 14



175179  
PAGE 15



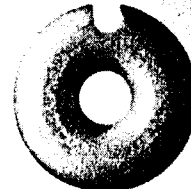
175173  
PAGE 15



175522  
PAGE 14



175160  
PAGE 14



140045  
PAGE 15



# PLATE 22024—FULL SIZE

465  
PAGE 15



175175  
PAGE 15



175184  
PAGE 15



1560  
PAGE 14



175181  
PAGE 15



175161  
PAGE 14



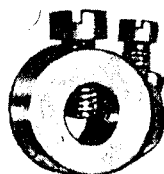
1120  
PAGE 15



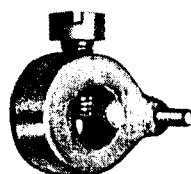
175182  
PAGE 15



175187  
PAGE 15



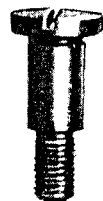
175191  
PAGE 15



175189  
PAGE 15



140046  
PAGE 15



175174  
PAGE 15



175069  
PAGE 11



175185  
PAGE 15



175062  
PAGE 10



175192  
PAGE 15



175180  
PAGE 15



175063  
PAGE 10



202098  
PAGE 10



175190  
PAGE 15



175065  
PAGE 10

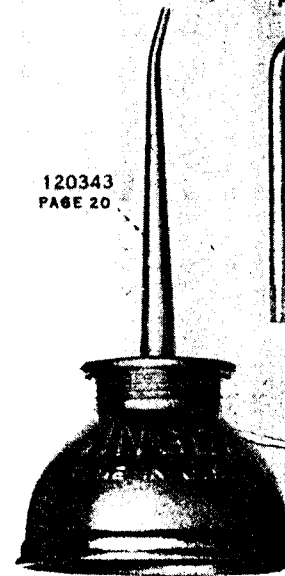


# PLATE 22025—ONE-HALF SIZE

26026  
PAGE 20

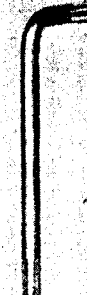


120342  
PAGE 20



120343  
PAGE 20

175197  
PAGE 20



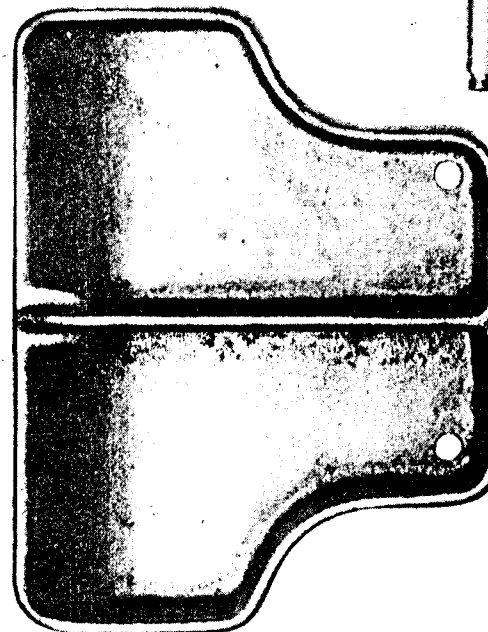
175198  
PAGE 20



175195  
PAGE 20



175193  
PAGE 20



175194  
PAGE 20



175196  
PAGE 20

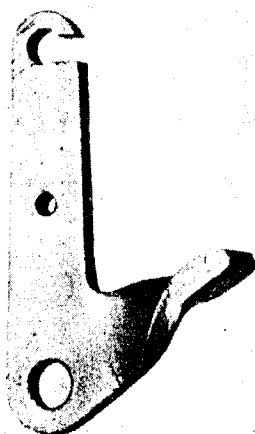


# PLATE 22026—FULL SIZE

175115  
PAGE 20



175208  
PAGE 20



175217  
PAGE 21



175206  
PAGE 20



175209  
PAGE 20



175207  
PAGE 20



140048  
PAGE 20



175205  
PAGE 20



175203  
PAGE 20



145  
PAGE 20



175210  
PAGE 20



1637  
PAGE 20



175424  
PAGE 20



455  
PAGE 20

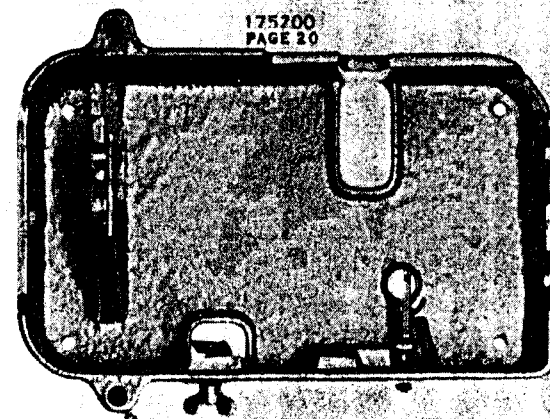


175536  
PAGE 20

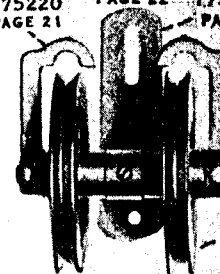


# PLATE 22027—ONE-FOURTH SIZE

175200  
PAGE 20



175220  
PAGE 21



175228  
PAGE 22

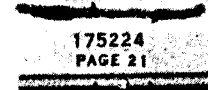
175225  
PAGE 21

175221  
PAGE 21

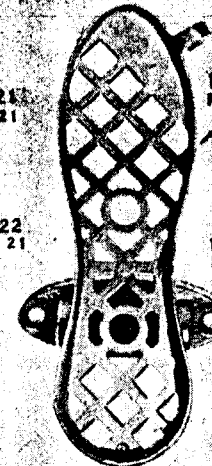
175222  
PAGE 21

175227  
PAGE 22

175224  
PAGE 21



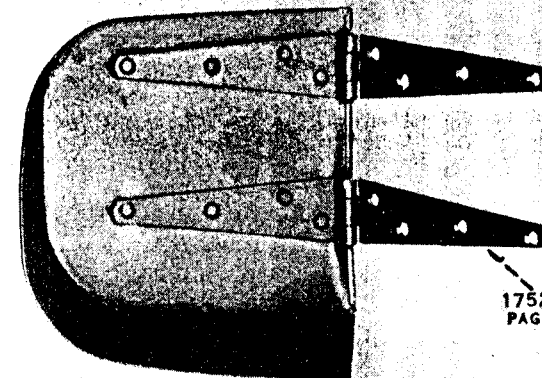
175219  
PAGE 21



175216  
PAGE 21

175218  
PAGE 21

175214  
PAGE 21



175212  
PAGE 21

PLATE 22028—ONE-FOURTH SIZE

