

UNION SPECIAL

Industrial Sewing Machines

**LEFT AND RIGHT HAND
BAG MACHINES**

STYLES

51000 A

51100 N

CATALOG No. 90 L

**UNION SPECIAL MACHINE COMPANY
CHICAGO**

Catalog No. 90 L

LIST OF PARTS

Left and Right Hand
Bag Machines

STYLES

51000 A

51100 N

The parts listed in this catalog are
furnished at list prices for repairs only.

First Edition

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Union Special Machine Company
Chicago, U.S.A.

Printed in U.S.A.



Union Special®

INDUSTRIAL SEWING MACHINES

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FOREWORD

The one dominating idea back of "Union Special" is to build the best industrial sewing machines in the world. Our new line of high speed flat bed right and left hand bag machines in Classes 51000 and 51100, equipped with enclosed type oiling system for looper drive eccentric and crank is a pronounced achievement along these lines. All parts are made to gauges with exceedingly close limits.

It is our constant aim to furnish carefully prepared information that will enable the customer to secure all possible economies and advantages from the use of Union Specials. On the pages which follow will be found illustrations and descriptions of the parts for Styles 51000 A and 51100 N.

Additional catalogs, containing information relative to these machines, and which will be furnished on request, are listed below.

| | |
|------------------|---|
| Catalog No. 29 | Accessories Manual |
| Catalog No. 45 | Needle Manual |
| Catalog No. 45 A | Price List of Needles |
| Catalog No. 89 | Instructions for installing and operating |
| Form 357 | Engineering Department Adjusting Instructions. Specify the style of machine for which the Adjusting Instructions are required. |

In all manufacturing centers will be found Union Special representatives, who will cooperate with those who desire in planning and estimating their requirements.

UNION SPECIAL MACHINE COMPANY

Engineering Department

IDENTIFICATION OF MACHINES

Each Union Special carries a style number which is stamped in the name plate on the machine. Style numbers are classified as standard and special. Those which are standard have one or more letters suffixed, but never contain the letter "Z". Example: 51100 N. Style numbers containing the letter "Z" are special. When only minor changes are made in a standard machine a "Z" is merely suffixed to the respective standard style number. Example: 51100 NZ.

Styles of machines similar in construction are grouped under a class number which differs from the style numbers in that it contains no letters. Example: 51100.

APPLICATION OF CATALOG

This catalog applies only to the standard styles of machines as listed herein. It can also be applied with discretion to the special machines covered by these classes.

STYLES OF MACHINES IN CLASS 51000

Enclosed Type Left Hand Flat Bed One Needle Machine

51000 A For seaming valve multi-wall paper bags, upper and under feed, stitch range 7 to 3 1/2 per inch, enclosed type oiling system for looper drive eccentric and crank, Type 947 G needle.

51000 Z A special style similar to the standard styles in Class 51000, but differing in one or more of its component parts.

STYLES OF MACHINES IN CLASS 51100

Enclosed Type Right Hand Flat Bed One Needle Machine

51100 N For seaming valve multi-wall paper bags, upper and under feed, stitch range 7 to 3 1/2 per inch, enclosed type oiling system for looper drive eccentric and crank, Type 947 G needle.

51100 Z A special style similar to the standard styles in Class 51100, but differing in one or more of its component parts.

NEEDLES

TYPE NUMBERS AND SIZES

Each needle has a type number and size number. The former denotes the kind of shank, point, length, groove, finish, and other details. The latter denotes the largest diameter of the blade, measured in thousandths of an inch midway between the shank and eye, and is stamped in the needle shank. Collectively, the type number and size number is the complete symbol.

To have orders promptly and accurately filled, the empty package, a sample needle, or the type and size numbers should be given. See marks on packages. An intelligent order would read as follows: "1000 Needles Type 947 G Size 073". The type number of the needles most commonly used in the styles of machines covered by this catalog is listed below. Set opposite the type number is the description of the needle.

| Type No. | Description |
|-------------|---|
| 947 G | Round shank, spear point, long, double groove, ball eye, spotted, chromium plated- sizes 067, 073, 080. |

ORDERING REPAIR PARTS

PLATES

Illustrations of parts similar in appearance, and, to some extent, component parts of the same subdivision of the mechanism, are grouped according to scale.

When a part is made in two or more sizes, usually only one illustration is shown. In ordering these parts, the additional information requested under these illustrations such as, "specify length" or "specify size", must be furnished.

LIST OF PARTS

The list of parts describes each part and its principal uses. Always check the symbol against its description before ordering. It is not necessary to furnish the plate number.

When a part is used, or can be used, in all machines covered by this catalog, no specific use is mentioned in the description.

For convenience in ordering, minor parts such as screws, nuts, and similar articles are repeated after each major part.

(-) A dash in the "plate number" column of the list of parts denotes the absence of an illustration.

(‡) A double dagger in the "symbol to order by" column denotes that the component parts cannot be furnished separately. Due to the high speed of these machines it is impossible for these associated parts to be fitted a second time and make a serviceable job.

ORDERING REPAIR PARTS (Continued)

IDENTIFYING PARTS

Where the construction permits, each part is stamped with its part number. Some of the smaller parts are stamped with an identification letter to distinguish them from parts similar in appearance.

All part numbers represent the same part, regardless of the catalog in which they appear.

SUPPLIES

All supplies, including taps, reamers, belting, belt hooks, belt fasteners, screw drivers, wrenches and powdered oil stone will be promptly furnished.

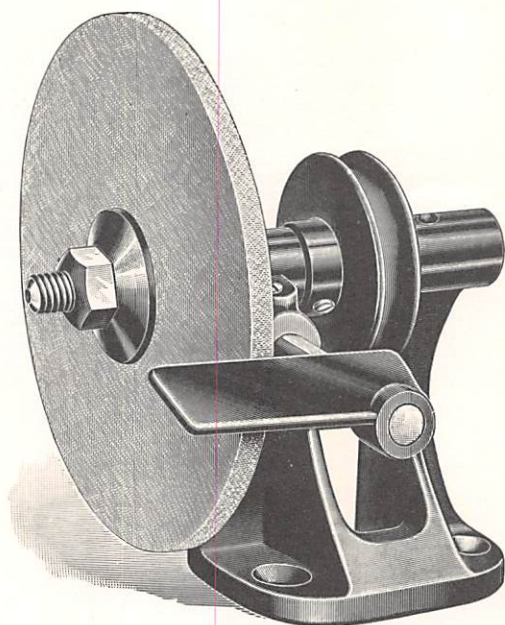
USE GENUINE NEEDLES AND REPAIR PARTS

Success in the operation of these machines can be secured only by the use of genuine Union Special Needles and Repair Parts as furnished by the Union Special Machine Company, its subsidiaries and authorized distributors. Obviously, it is to our interest to maintain the reputation of Union Specials by furnishing the very best goods obtainable. They are designed according to the most approved engineering principles, and are made with the utmost precision.

Genuine needles are put up in packages marked at the top "Trade 'UNION SPECIAL' mark". Genuine repair parts are stamped with a reproduction of the well known two padlocks with a link connecting the shackles.

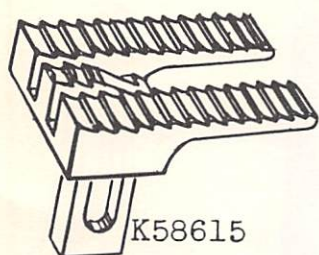
TERMS

Prices are strictly "net cash" and subject to change without notice. All shipments are forwarded at the buyer's risk f.o.b. shipping point. Parcel post shipments are insured unless otherwise directed. A charge is made to cover the postage and insurance.

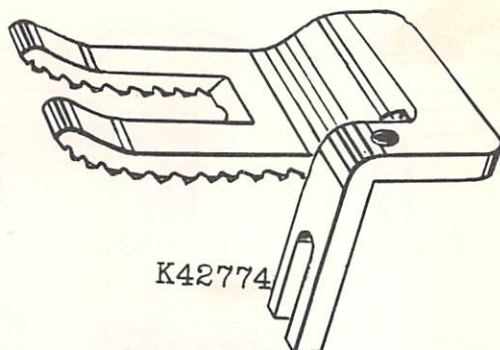


21394
Utility Grinder

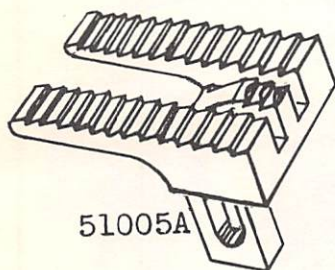
Plate 1 - Full Size



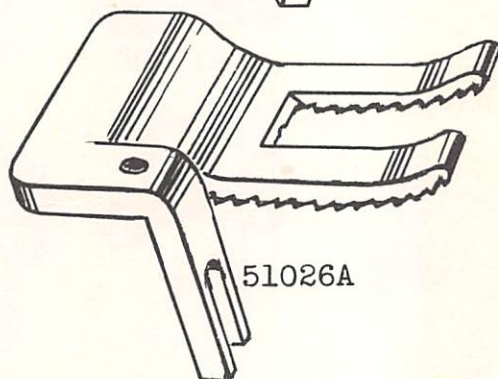
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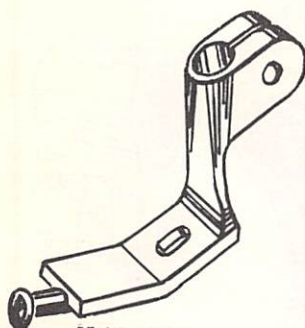
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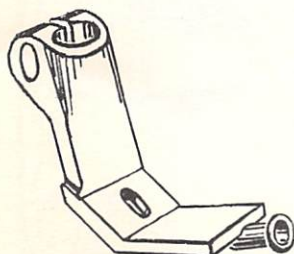
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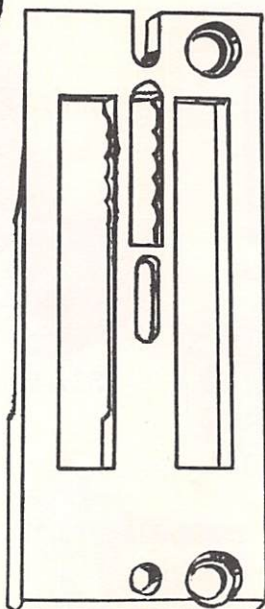
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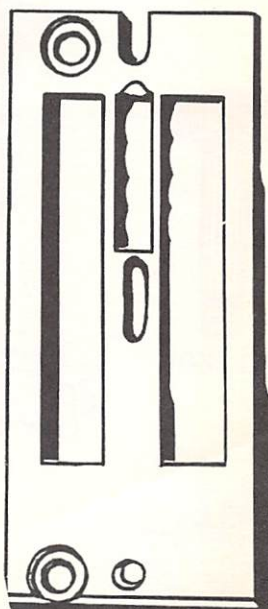
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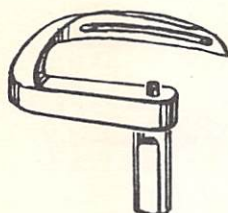


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Plate 2 - Full Size



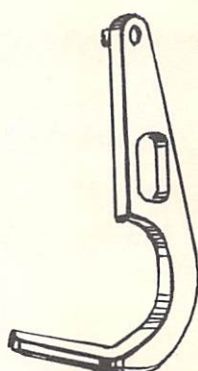
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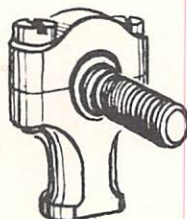
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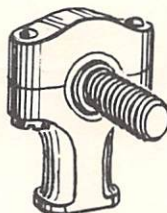
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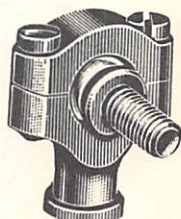
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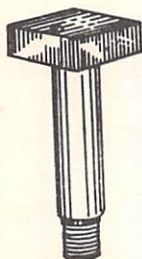
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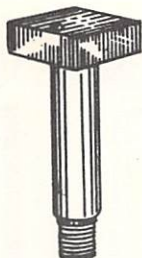
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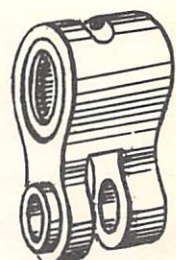
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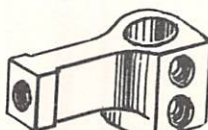
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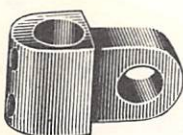
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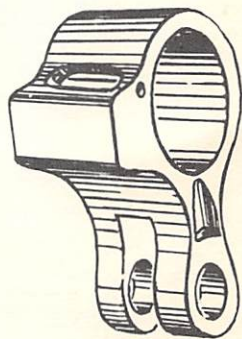
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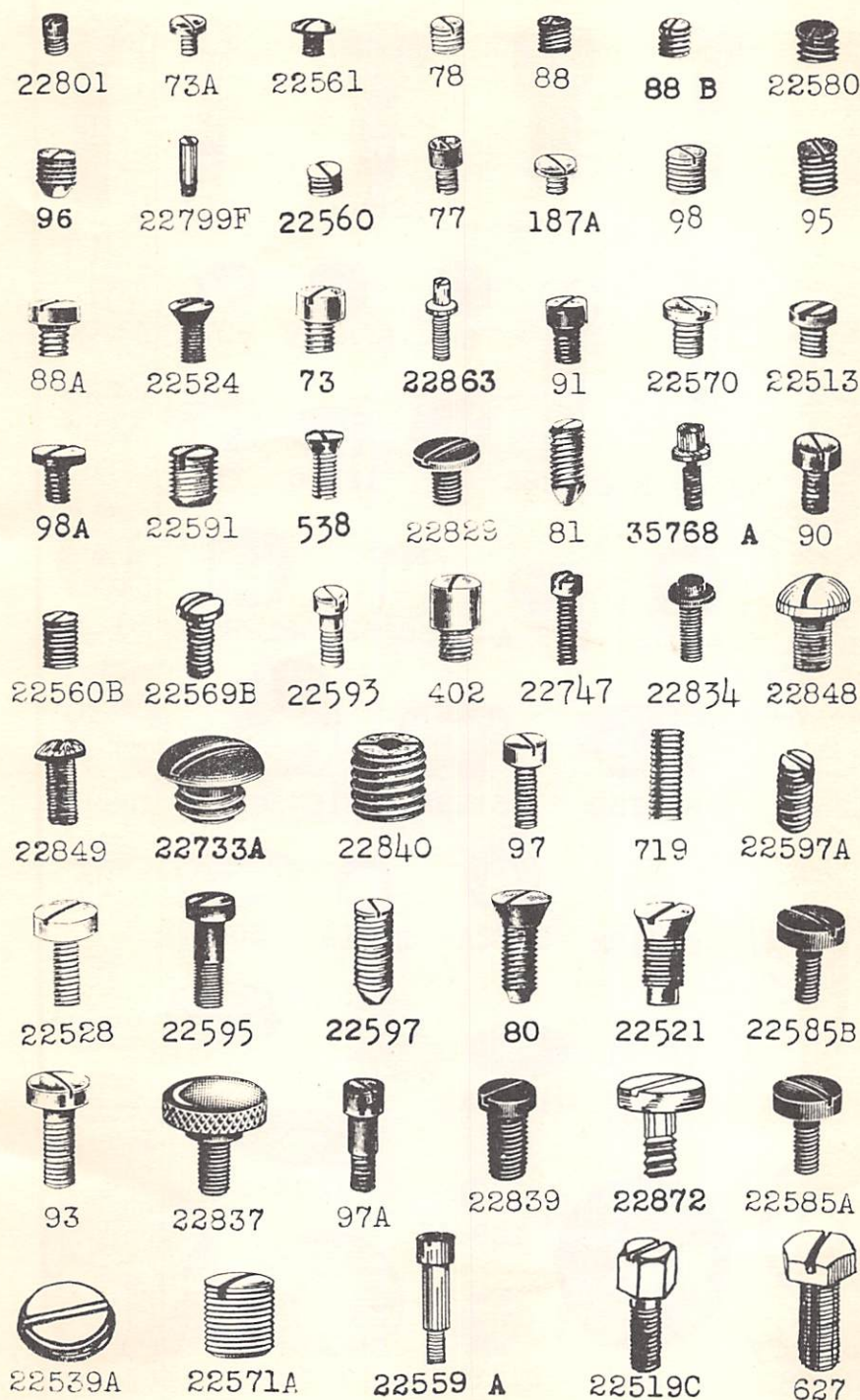


Plate 4 - Full Size

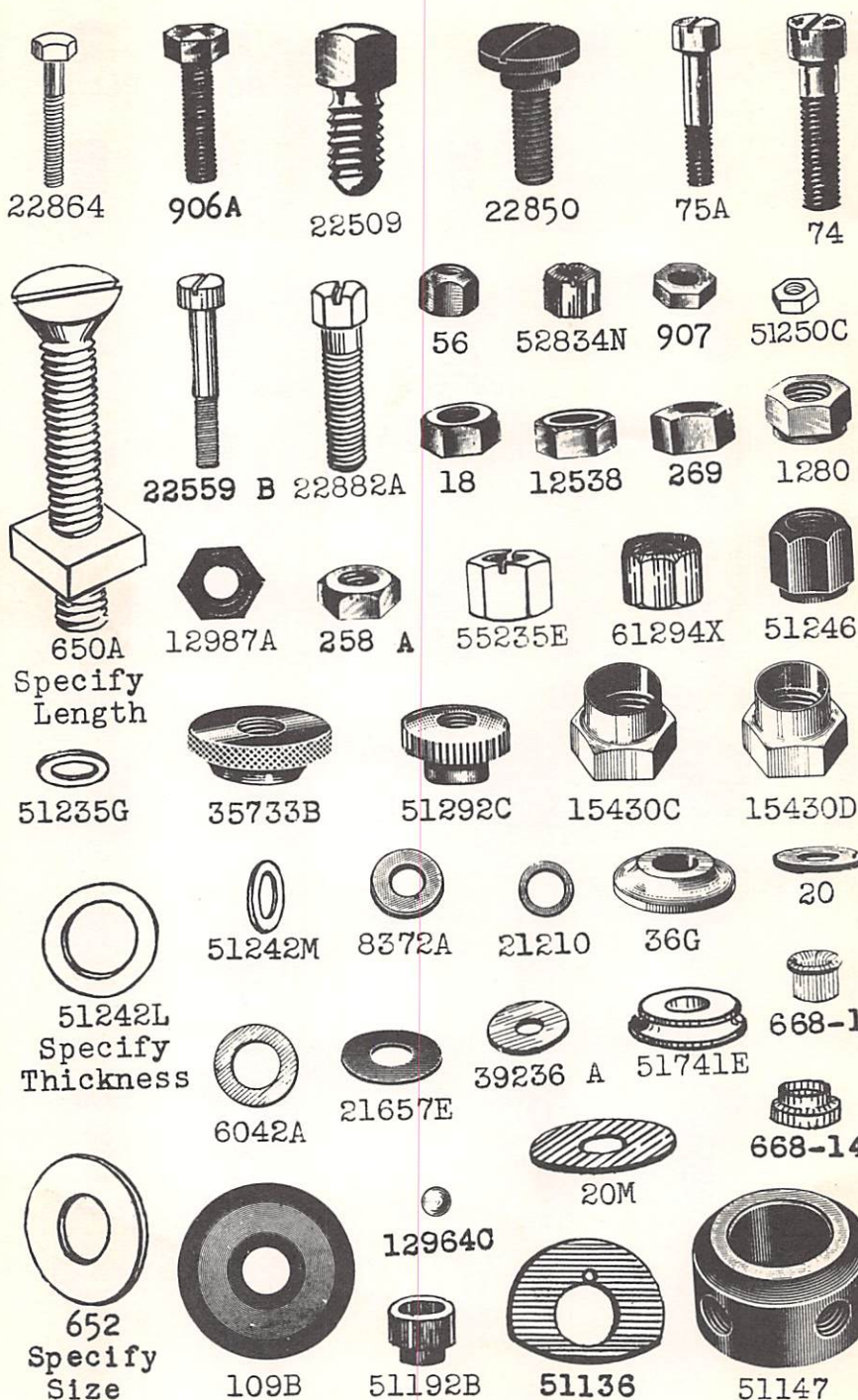
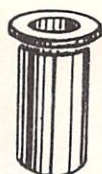


Plate 5 - Full Size



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K56760



51242R



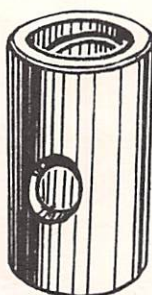
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51250A



51244C



51290A



51254A



51290 E



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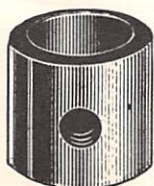
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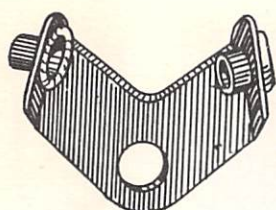


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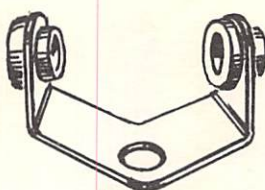


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Plate 6 - Full Size



51192G



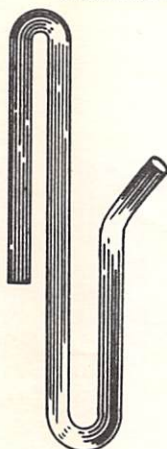
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51158D



51758



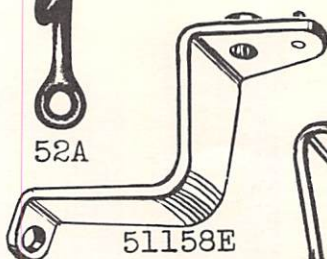
51170E



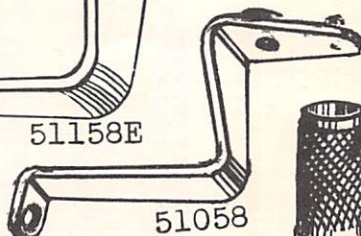
51070



52A



51158E



51058



51240B



52887G



35731A



15465F



51134G



51243C



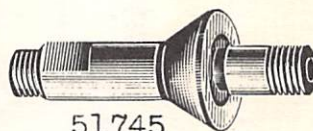
51243B



1286B



51186D



51745



51292 F-1



51292F-2



51292F-8



51292F-14



51240C

35833 A

51292

55235D

51240A

51054

52841

1286

51236A

41046D

1286 A

21105J

666-82

666-19

51294F

21225
Specify
Measurement

666-28

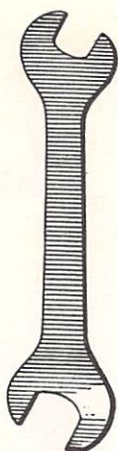
V118

666-13

WA15

21217A

Plate 8 - One-half Size



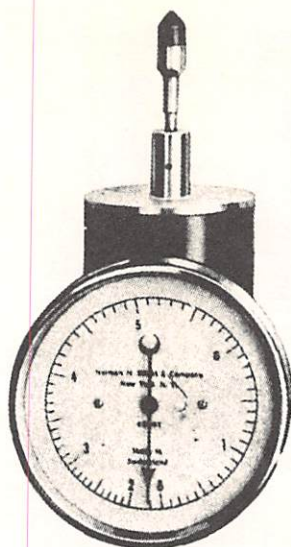
21388R



116



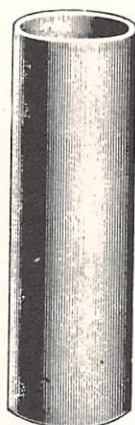
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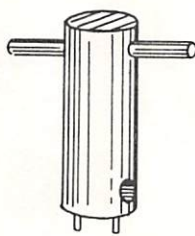
TA55A



21388N



21355



21388Z



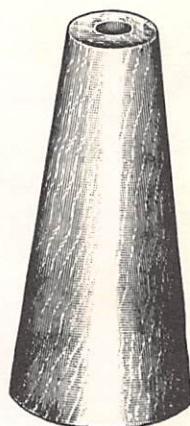
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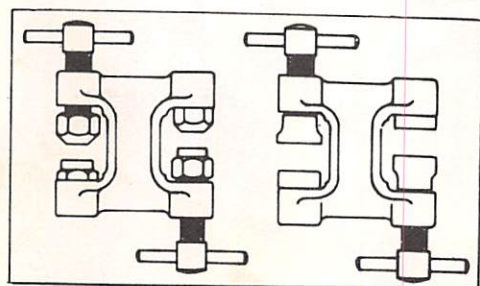
21104 E



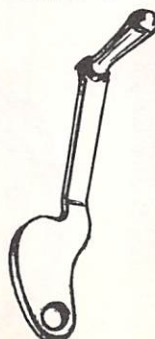
21104 C



21145



21227HK

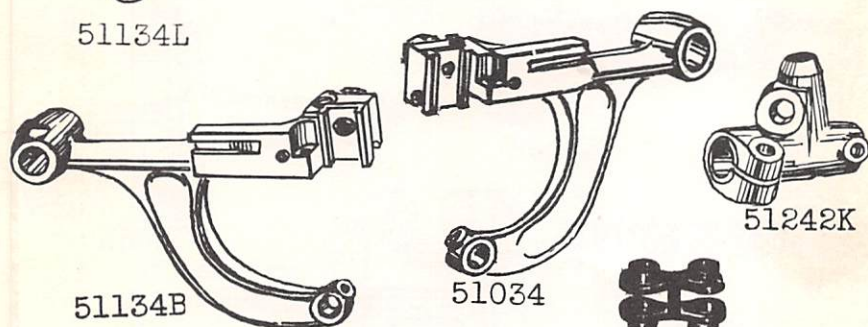
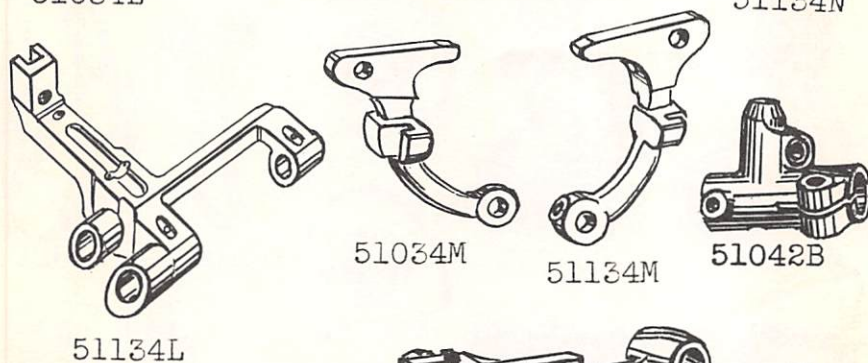
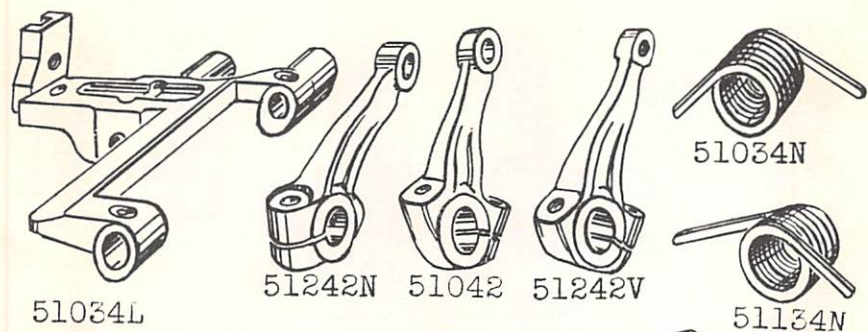


51083



51183

Plate 9 - One-half Size



54

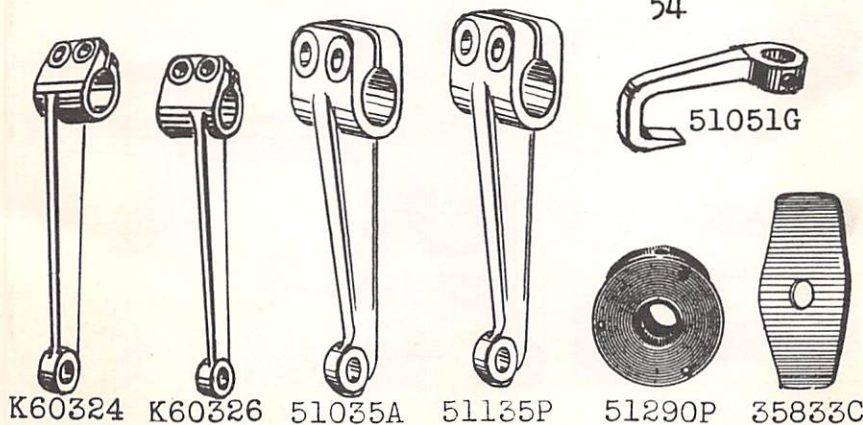
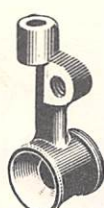


Plate 10 - One-half Size



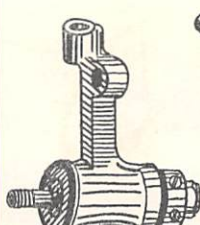
51013



51213



29192J



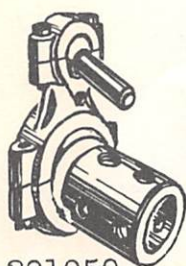
29192



29066F



51216A



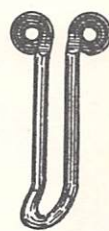
29105Q



29105T



51023



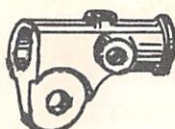
51104D



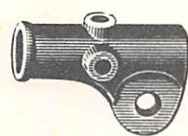
51021



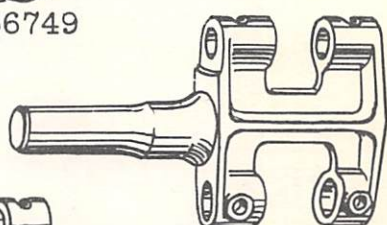
K56749



51044



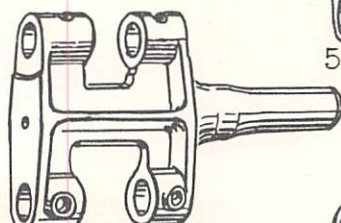
51244



51135N



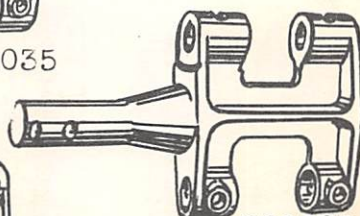
51041C



51035



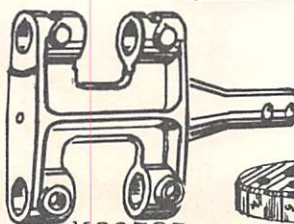
51041D



K60325



51241



K60323



51241G

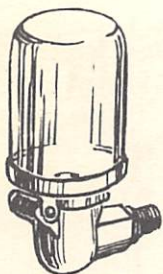


51185D

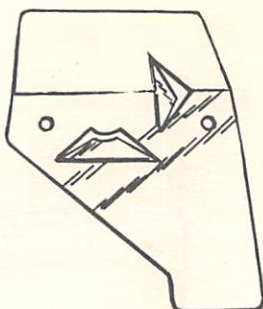


51085

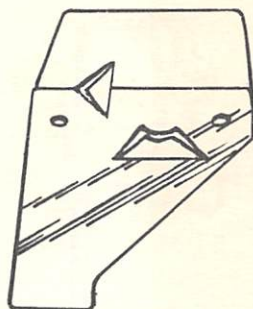
Plate 11 - One-half Size



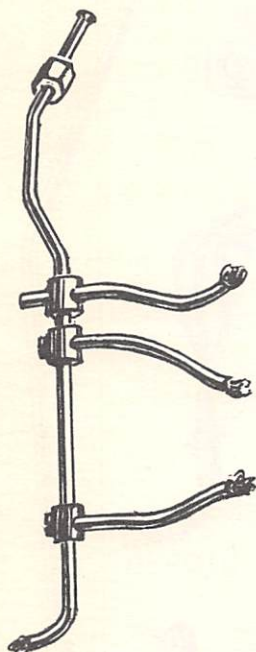
666-77



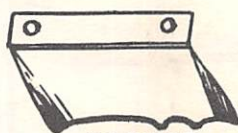
51282N



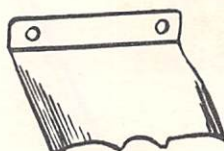
51082D



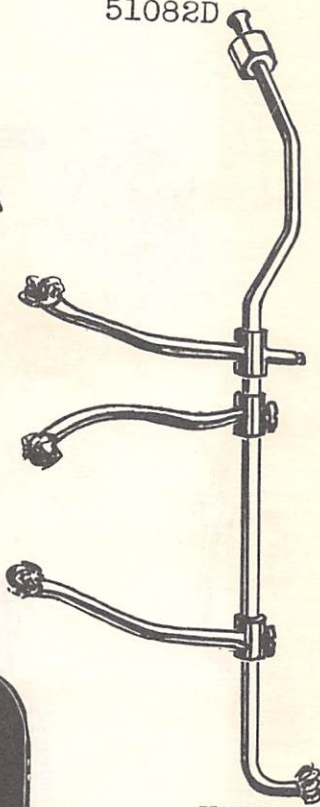
51093A



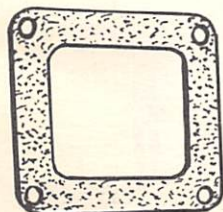
51082B



51282F



K59048



51282U



51282B



51282T

Plate 12 - One-half Size

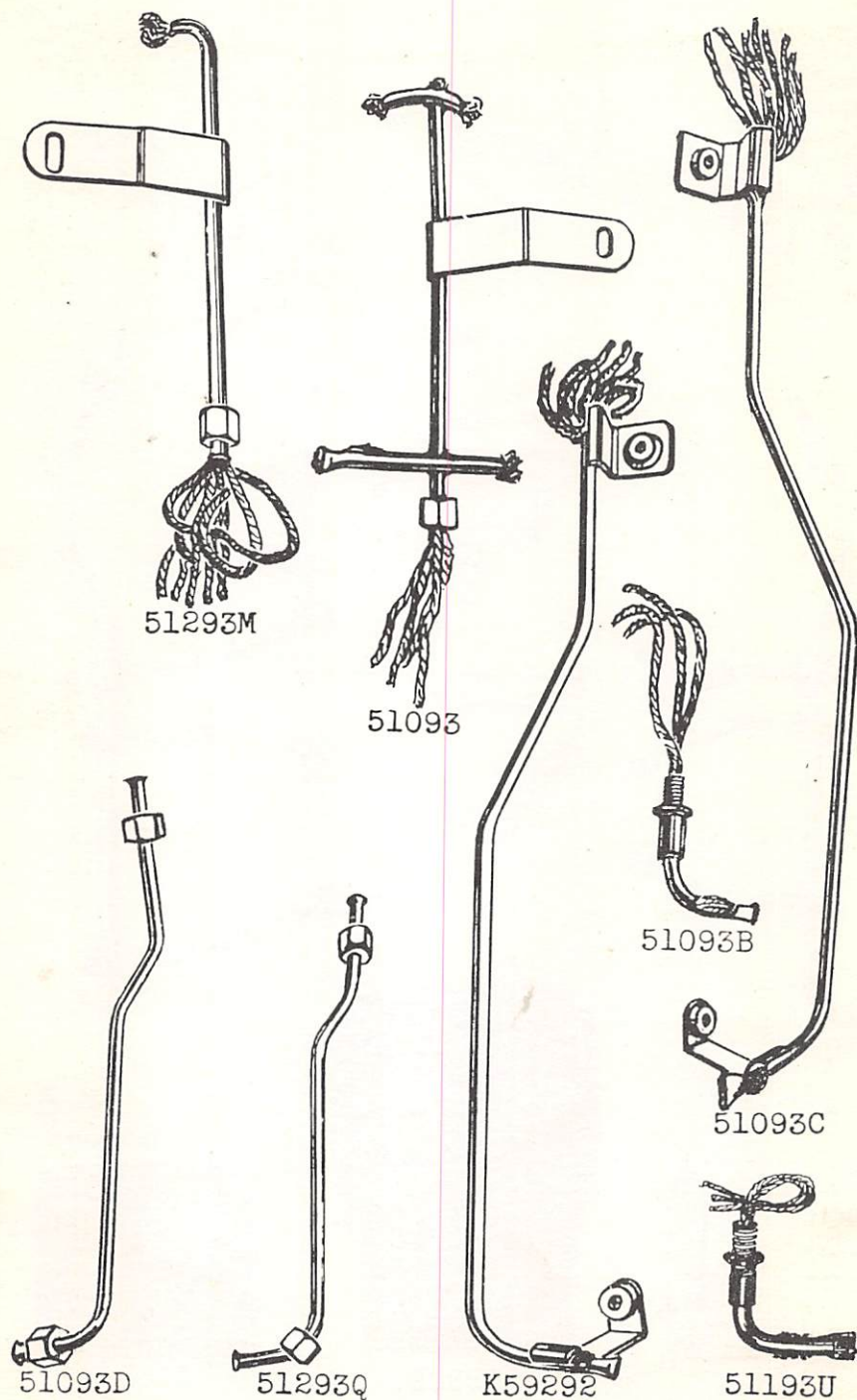


Plate 13 - One-half Size

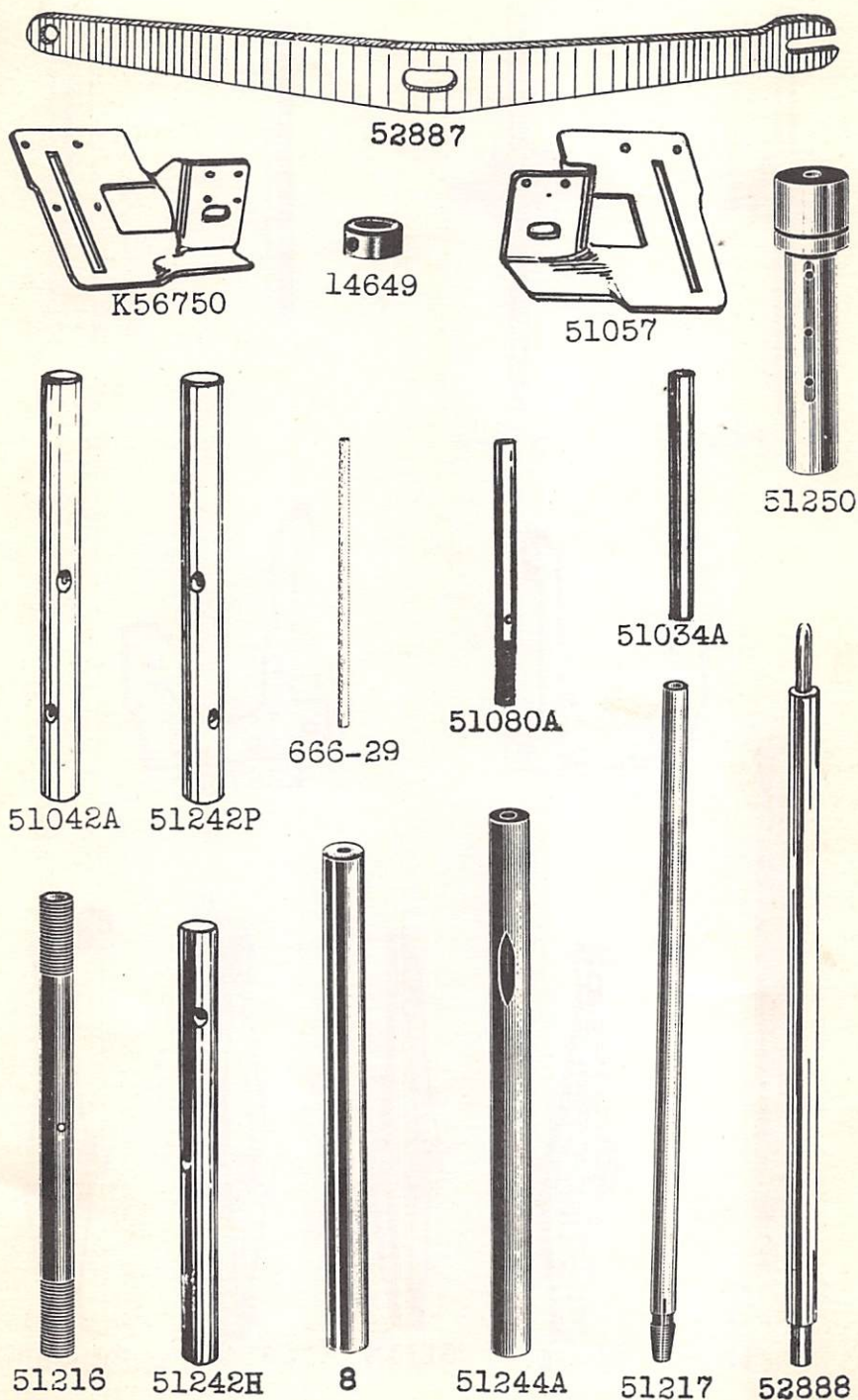


Plate 14 - One-fourth Size



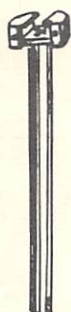
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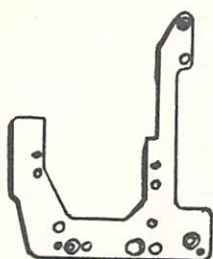
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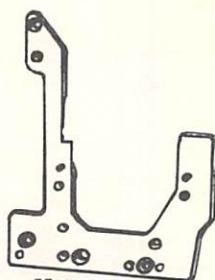
51022



51722



51080



K56755



21104B
Specify
Length



51015



51115

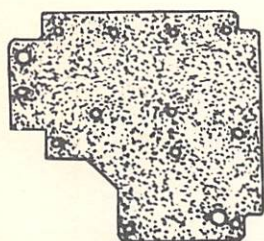


29348E

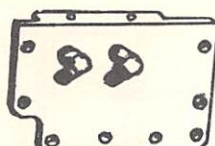


29348D

Plate 15 - One-fourth Size



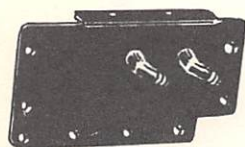
51282M



51082E



51190D



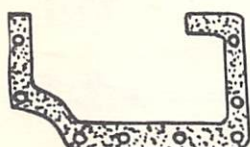
51282R



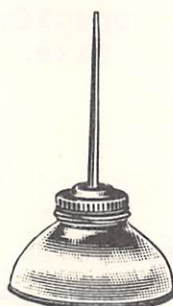
51082A



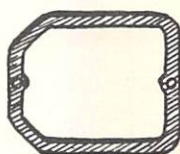
51282E



51282S



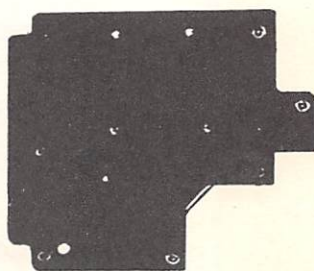
413



52882E



51282L



51082C

Plate 16 - One-fourth Size

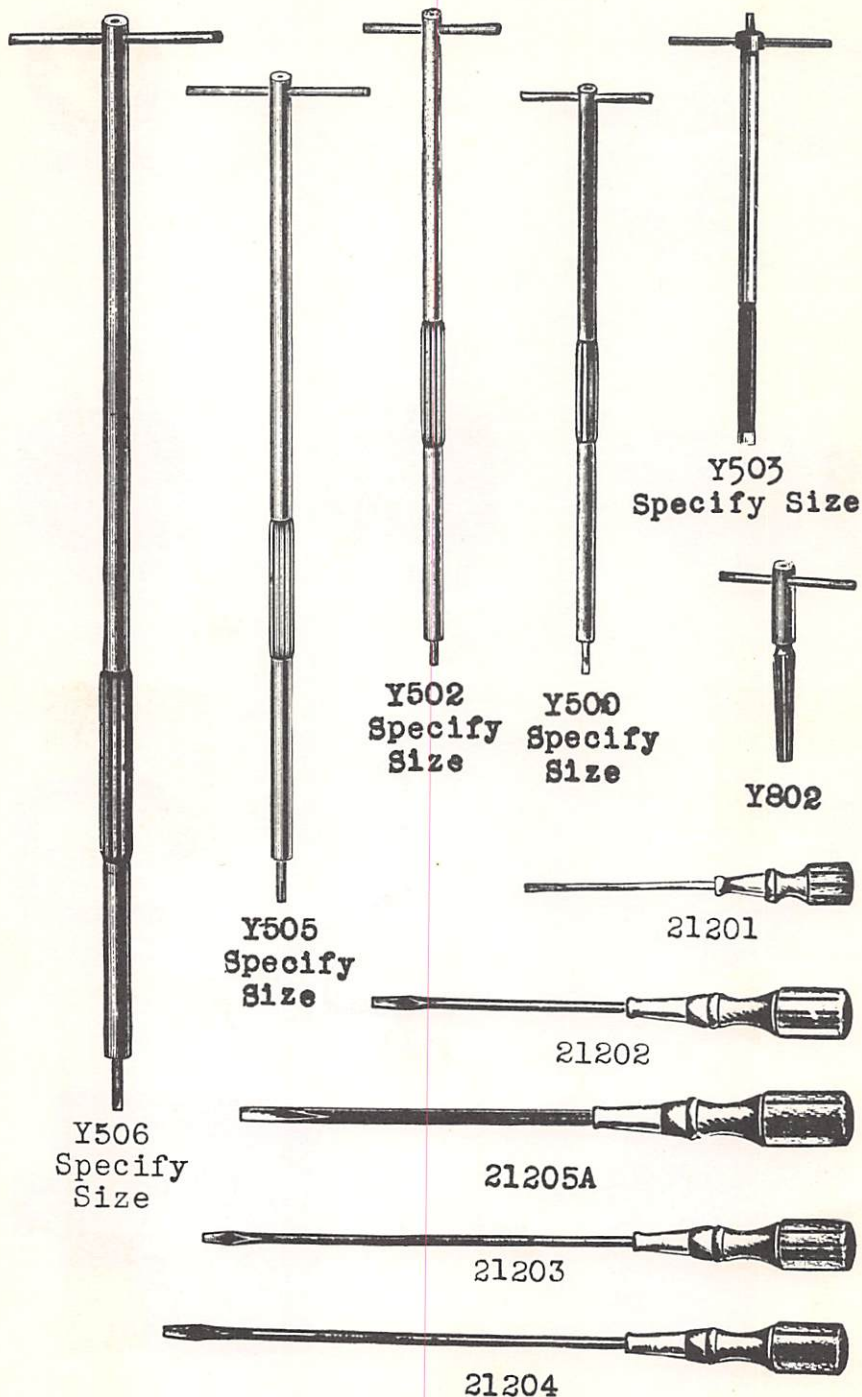


Plate 17 - One-eighth Size



21388F



21104D



21104G



21114 A



21127



51001



K59837



21388X



21102B



01-19

LIST OF PARTS

| Symbol to Order By | The figures in the last column refer only to the plates illustrating the parts and are not to be used in ordering. Prices furnished on application. | Plate No. |
|--------------------------|--|--------------|
| 8 | Feed Rocker Shaft- - - - - | 13 |
| WA15 | Stop Watch - - - - - | 7 |
| 18 | Looper Connecting Rod Nut, right thread; also for Nos. 51041, 51241 D- - - - - | 4 |
| OI-19 | Pressure Pump Oil Can, 1 1/2 pints capacity- - | 17 |
| 20 | Feed Crank Stud Washer, left; also for Nos. 51070, 51170 E, 51758- - - - - | 4 |
| 20 M | Feed Crank Stud Washer, right- - - - - | 4 |
| 36 G | Washer, for looper connecting rod ball joint assemblies Nos. 51041 C, 51241 - - - - - | 4 |
| 52 A | Frame Needle Thread Eyelet (screw No. 98 A)- - | 6 |
| 54 | Needle Lever Link- - - - - | 9 |
| TA54 | Hand Tally - - - - - | - |
| TA55 A | Hand Tachometer, 2000 to 8000 R.P.M. - - - - | 8 |
| 56 | Needle Clamp Nut - - - - - | 4 |
| 73 | Set Screw, for looper- - - - - | 3 |
| 73 A | Screw, for looper needle guard - - - - - | 3 |
| 74 | " for attaching customer's gear to pulley; also for No. 51242 V- - - - - | 4 |
| 75 A | " for lower needle lever connecting rod bearing - - - - - | 4 |
| 77 | Set Screw, for feed crank link pin; also for No. 51236 A - - - - - | 3 |
| 78 | " " for lower needle lever link pin - - | 3 |
| 80 | Screw, 3/64 inch long, for cloth plate- - - | 3 |
| 81 | Spot Screw, for looper drive levers; also for Nos. 51042 B, 51242 K- - - - - | 3 |
| 88 | Screw, for looper rocker cone; also for No. 14649- - - - - | 3 |
| 88 A | Set Screw, for needle bar- - - - - | 3 |
| 88 B | Screw, for looper rocker shaft sleeve- - - - | 3 |
| 90 | " for crankshaft chamber cover; also for No. 41046 D - - - - - | 3 |
| 91 | Clamp Screw, for presser foot- - - - - | 3 |
| 93 | " " for looper rock shaft arm; also for No. 21102 B - - - - - | 3 |
| 95 | Screw, for main shaft collar; also for No. 51051 G- - - - - | 3 |
| 96 | Spot Screw, for looper rocker frame; also for Nos. 29105 Q, 29105 T, 51023, 51142, 51142 A, K56749- - - - - | 3 |
| 97 | Screw, for needle lever ball stud fork; also for No. 51243 C- - - - - | 3 |
| 97 A | Screw, for looper connecting rod ball joints; also for No. 51216 A - - - - - | 3 |
| 98 | Set Screw, for looper rocker frame; also for Nos. 29105 Q, 29105 T, 51035, 51135 N, K60323, K60325 - - - - - | 3 |
| 98 A | Screw, for frame thread eyelets- - - - - | 3 |
| 109 B | Tension Disc - - - - - | 4 |
| 116 | Wrench, 9/32 inch opening, for needle clamp nut- - - - - | 8 |

LIST OF PARTS

| Symbol to Order By | The figures in the last column refer only to the plates illustrating the parts and are not to be used in ordering. Prices furnished on application. | Plate No. |
|--------------------------|--|--------------|
| V118 | Tap, marked "X-2", for plus size cloth plate screw No. 22521- - - - - | 7 |
| 187 A | Screw, for crankshaft chamber cover oil drip plate, also for Nos. 51082 D, 51282 N- - - - | 3 |
| 258 A | Looper Rocker Cone Nut; also for No. 35833 A | 4 |
| 269 | Looper Connecting Rod Nut, left thread; also for Nos. 51036, 51136 E- - - - - | 4 |
| 402 | Hand Lifter Stop Pin - - - - - | 3 |
| 413 | Oil Can, complete- - - - - | 15 |
| Y500-257 | Expansion Reamer, for needle bar bearings, size .257 inch - - - - - | 16 |
| Y502-319 | " " for upper presser bar bear- ing, size .319 inch- - - - - | 16 |
| Y503-319 | " " for lower presser bar bear- ing, size .319 inch- - - - - | 16 |
| Y505-407 | " " for looper rocker and feed rocker shaft bearings, size .407 inch- - - - - | 16 |
| Y506-530 | " " for main shaft bearings, size .530 inch - - - - - | 16 |
| 538 | Screw, for supporting feed dog - - - - - | 3 |
| 627 | Clamp Screw, for looper drive lever rocker - - - | 3 |
| 650 A-16 | Stove Bolt, flat head, 5/16 x 2 inches - - - | 4 |
| 650 A-18 | " " flat head, 5/16 x 2 1/2 inches - - - | 4 |
| 652-16 | Washer, 1/4 inch - - - - - | 4 |
| 666-13 | Felt Wick, spring pressed, for main shaft bearings- - - - - | 7 |
| 666-19 | " " for needle lever connecting rod bearing - - - - - | 7 |
| 666-28 | Oil Cup, for needle lever stud (nut No.12987A) | 7 |
| 666-29 | Felt Wick, for needle lever stud - - - - - | 13 |
| 666-77 | Constant Level Oiler - - - - - | 11 |
| 666-82 | Feed Lift Eccentric Oil Wick, also looper avoid eccentric oil wick - - - - - | 7 |
| 668-1 | Steel Insert, for tension thread eyelet- - - - | 4 |
| 668-14 | Steel Insert Ferrule, for tension thread eyelet - - - - - | 4 |
| 719 | Set Screw, for needle lever stud, also for No. 51250 B- - - - - | 3 |
| Y802 | Taper Reamer, for needle lever link and feed crank pins - - - - - | 16 |
| 906 A | Adjusting Screw, for upper feed dog (nut No. 907) - - - - - | 4 |
| 907 | Adjusting Screw Lock Nut, for upper feed - - - | 4 |
| 1280 | Tilting Feed Dog Holder Lock Nut - - - - - | 4 |
| 1286 | Feed Crank Link Pin Assembly; one each Nos. 1286 A, 1286 B, 12964 C, 22560 - - - - - | 7 |
| 1286 A | Feed Crank Link Pin; also needle lever link pin (screw No. 77) - - - - - | 7 |
| 1286 B | Feed Crank Link Pin Spring (screw No. 22560) | 6 |
| 6042 A | Tilting Feed Dog Holder Washer, also for No. 55235 D- - - - - | 4 |

LIST OF PARTS

| Symbol to Order By | The figures in the last column refer only to the plates illustrating the parts and are not to be used in ordering. Prices furnished on application. | Plate No. |
|--------------------------|---|--------------|
| 8372 A | Looper Drive Ball Joint Locking Stud Washer | 4 |
| 12538 | Looper Connecting Rod and Ball Joint Assembly Nut- - - - - | 4 |
| 12964 C | Feed Crank Link Pin Ball - - - - - | 4 |
| 12987 A | Nut, for needle lever stud oil cup; also for Nos. 51093 B, 51193 U- - - - - | 4 |
| 14649 | Feed Rocker Shaft Collar (screw No. 88)- - - | 13 |
| 15430 C | Needle Lever Connecting Rod Nut, left thread | 4 |
| 15430 D | " " " " " right thread | 4 |
| 15465 F | Looper Rocker Cone (screw No. 88, nut No. 258 A) - - - - - | 6 |
| 21102 B | Thread Stand Thread Guide Rod (screw No. 93) | 17 |
| 21104 B-18 | Thread Stand Vertical Rod, 18 inches long; also horizontal spool seat rod (screw No. 22509) - - - - - | 14 |
| 21104 B-24 | Thread Stand Vertical Rod, 24 inches long (screw No. 22591)- - - - - | 14 |
| 21104 C | Thread Stand Rod Connection (screw No. 22509) | 8 |
| 21104 D | Thread Stand Spool Seat- - - - - | 17 |
| 21104 E | " " " " Connection - - - - - | 8 |
| 21104 G | " " " Pin - - - - - | 17 |
| 21105 J | " " Thread Guide- - - - - | 7 |
| 21114 A | " " Base (screw No. 22591)- - - - - | 17 |
| 21127 | " " Vertical Rod Connection (screw No. 22580)- - - - - | 17 |
| 21145 | Cone, wood, for thread stand - - - - - | 8 |
| 21201 | Screw Driver, 9/64 inch round blade, length overall 7 5/8 inches - - - - - | 16 |
| 21202 | Screw Driver, 7/32 inch round blade, length overall, 11 1/4 inches - - - - - | 16 |
| 21203 | Screw Driver, 13/64 inch round blade, length overall 15 1/2 inches- - - - - | 16 |
| 21204 | Screw Driver, 9/32 inch round blade, length overall 15 inches- - - - - | 16 |
| 21205 A | Screw Driver, 3/8 inch round blade, length overall 14 inches- - - - - | 16 |
| 21207 | Screw Driver, 7/64 inch round blade, length overall 2 1/2 inches - - - - - | 8 |
| 21210 | Looper Collar, .040 inch thick - - - - - | 4 |
| 21217 A | Thread Stand Thread Guide Rod Support (screw No. 22591) - - - - - | 7 |
| 21225-5/32 | Looper Adjusting Gauge, 5/32 inch measure- ment - - - - - | 7 |
| 21227 HK | Steel Insert Replacement Tool Set, for assembling insert No. 668-1 and ferrule No. 668-14 in tension thread eyelet. Ferrule should always be replaced- - - - - | 8 |
| 21260 | Emery Cord, 3/64 inch diameter, grade No. 120, fifty yard spool- - - - - | -- |
| 21260 A | Emery Cord, 3/64 inch diameter, grade No. 150, fifty yard spool- - - - - | -- |

LIST OF PARTS

| Symbol to Order By | The figures in the last column refer only to the plates illustrating the parts and are not to be used in ordering. Prices furnished on application. | Plate No. |
|--------------------------|---|--------------|
| 21260 B | Emery Cord, 1/32 inch diameter, grade No. 180, fifty yard spool- - - - - | -- |
| 21260 C | " " .025 inch diameter, grade No. 200, fifty yard spool- - - - - | -- |
| 21260 D | Emery Tape, 3/32 inch wide, grade No. 180, fifty yard spool- - - - - | -- |
| 21260 E | Emery Cord, .018 inch diameter, grade No. 200, fifty yard spool- - - - - | -- |
| 21355 | Chair Leg Extension, 4 inches long- - - - - | 8 |
| 21388 | Wrench. single end, 3/8 inch opening- - - - - | 8 |
| 21388 F | " offset, for adjusting the stitch length- - - - - | 17 |
| 21388 N | " double end, 3/16 and 5/16 inch openings- - - - - | 8 |
| 21388 R | " double end, 3/8 and 1/2 inch openings- - - - - | 8 |
| 21388 X | " for main shaft bearing housing- - - - - | 17 |
| 21388 Z | Wrench, for setting needle lever stud correctly with respect to oil groove. Stud is set correctly when the pin hole nearest the periphery is up and a line drawn between the two pin holes is 45 degrees to the right of the vertical- - - - - | 8 |
| 21394 | Utility Grinder, including emery wheel, 5 inches diameter, 1/4 inch face, round belt drive, recommended speed 3000 R.P.M.- - - - - | -- |
| 21394 G | Emery Wheel, 5 inches diameter, 1/4 inch face, 3/8 inch hole, grade "M" emery 60- - - - - | -- |
| 21394 H | " " 5 inches diameter, 1/2 inch face, 3/8 inch hole, grade "M" emery 60- - - - - | -- |
| 21394 K | Utility Grinder, including emery wheel, 5 inches diameter, 1/2 inch face, round belt drive, recommended speed 3000 R.P.M.- - - - - | -- |
| 21657 E | Cast-off Wire Support Washer- - - - - | 4 |
| 22509 | Set Screw, square head, cup point, 5/16 inch diameter, 18 threads per inch, 1/2 inch long, for thread stand rod connection- - - - - | 4 |
| 22513 | Screw, for presser bar connection guide plate- - - - - | 3 |
| 22519 C | Clamp Screw, for feed rocker arm- - - - - | 3 |
| 22521 | Screw, plus size, for cloth plate (tap No.V118)- - - - - | 3 |
| 22524 | " countersunk head, for oil reservoir top cover- - - - - | 3 |
| 22528 | " for cast-off wire support; also for Nos. K42774, 51005 A, 51026 A, 51243 B, K58615- - - - - | 3 |
| 22539 A | Plug Screw, for looper drive lever shaft hole- - - - - | 3 |
| 22559 A | Bearing Screw, lower, for looper drive connec- tion- - - - - | 3 |
| 22559 B | " " upper, for looper drive connec- tion- - - - - | 4 |
| 22560 | Screw, for feed crank link pin spring- - - - - | 3 |
| 22560 B | " for presser bar guide; also for Nos. 51034, 51134 B- - - - - | 3 |
| 22561 | " for stitch regulator indicator- - - - - | 3 |
| 22569 B | " for main shaft bushing housing- - - - - | 3 |
| 22570 | " fillister head, for throat plates- - - - - | 3 |

LIST OF PARTS

| Symbol to Order By | The figures in the last column refer only to the plates illustrating the parts and are not to be used in ordering. Prices furnished on application. | Plate No. |
|--------------------------|--|--------------|
| 22571 A | Plug Screw, for spring pressed felt wicks on main shaft bearings; also for oil drain hole in main oil reservoir- - - - - | 3 |
| 22580 | Set Screw, for looper thread take-up; also for No. 21127 - - - - - | 3 |
| 22585 A | Screw, fillister head, for oil reservoir top cover - - - - - | 3 |
| 22585 B | Screw, for needle rear guard- - - - - | 3 |
| 22591 | Set Screw, for thread stand rods; also for No. 21217 A - - - - - | 3 |
| 22593 | Screw, for looper thread cast-off guide wire; also for No. 51158 D- - - - - | 3 |
| 22595 | Screw, for needle lever link pin oil tube - - | 3 |
| 22597 | Spot Screw, for pulley- - - - - | 3 |
| 22597 A | Set Screw, for pulley - - - - - | 3 |
| 22733 A | Plug Screw, for hole in top of bed on Style 51100 N - - - - - | 3 |
| 22747 | Screw, for needle lever thread eyelet - - - | 3 |
| 22799 F | Locating Screw, for stitch regulator index washer- - - - - | 3 |
| 22801 | Pivot Screw, for needle rear guard- - - - - | 3 |
| 22829 | Locking Screw, for looper rocker cone nut; also for Nos. 51093, 51293 M- - - - - | 3 |
| 22834 | Screw, for regulating needle rear guards- - - | 3 |
| 22837 | Thumbscrew, for face plate- - - - - | 3 |
| 22839 | Screw, fillister head, for throat plate supports- - - - - | 3 |
| 22840 | Adapter Screw, for frame thread eyelet- - - | 3 |
| 22848 | Screw, for oil reservoir back cover; also for No. 51070, 51170 E, 51758 - - - - - | 3 |
| 22849 | Screw, right, for upper crank chamber cover; also for Nos. 51093 C, K59292 - - - - - | 3 |
| 22850 | Stud, for hand lifter - - - - - | 4 |
| 22863 | Adjusting Screw, for feed dog holder- - - - | 3 |
| 22864 | Needle Lever Link Pin Clamp Screw (nut No. 51250 C)- - - - - | 4 |
| 22872 | Plug Screw, for lower tension post hole on Style 51100 N - - - - - | 3 |
| 22882 A | Clamp Screw, for looper drive levers Nos. 51042, 51242 N- - - - - | 4 |
| 28604 G | Straight Mineral Oil, S.A.E. 10 "W" put up in 10 fluid ounces to can, which is the capa- city of machine - - - - - | -- |
| 28606-1/2 | Powdered Oil Stone, 1/2 lb. package - - - - | -- |
| 28606-1 | " " " 1 lb. package - - - - - | -- |
| 29066 F | Needle Lever Connecting Rod Upper Bearing Assembly; one each Nos. 51216 A, 51243 B- - | 10 |
| *29105 Q | Looper Drive Eccentric Assembly, includes eccentric No. 51343, for Style 51100 N (set screw No. 98, spot screw No. 96, bearing screw, upper, No. 22559 B, bearing screw, lower, No. 22559 A) - - - - - | 10 |

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LIST OF PARTS

| Symbol to Order By | The figures in the last column refer only to the plates illustrating the parts and are not to be used in ordering. Prices furnished on application. | Plate No. |
|--------------------------|--|--------------|
| *29105 T | Looper Drive Eccentric Assembly, includes eccentric No. 51043, for Style 51000 A (set screw No. 98, spot screw No. 96, bearing screw, upper, No. 22559 B, bearing screw, lower, No. 22559 A) - - - - - | 10 |
| 29192 | Looper Rocker Assembly, for Style 51100 N; one each Nos. 51213, 15465 F, 51745 lapped to- gether, Nos. 258 A, 22829; two No. 88 - - - - - | 10 |
| 29192 J | Looper Rocker Assembly, for Style 51000 A; one each Nos. 51013, 15465 F, 51745 lapped to- gether, Nos. 258 A, 22829; two No. 88 - - - - - | 10 |
| 29348 D | Needle Lever Assembly, for Style 51100 N; one each Nos. 51215 C, 51250 lapped together, Nos. 54, 78, 22864, 35759, 51250 C; two each Nos. 88 A, 1286, 22528 - - - - - | 14 |
| 29348 E | Needle Lever Assembly, for Style 51000 A; one each Nos. 51015, 51250 lapped together, Nos. 54, 78, 22864, 35759, 51250 C; two each Nos. 88 A, 22528, 51054 - - - - - | 14 |
| *29476 AK | Crankshaft Assembly, for Style 51100 N; in- cludes crankshaft No. 51322 A (bearing screw No. 75 A) - - - - - | 14 |
| *29476 BX | Crankshaft Assembly, for Style 51000 A, in- cludes crankshaft No. 51022 A (bearing screw No. 75 A) - - - - - | 14 |
| 35731 A | Presser Bar Connection Guide Plate (screw No. 22513) - - - - - | 6 |
| 35733 B | Presser Spring Regulating Screw Lock Nut - - - - - | 4 |
| 35759 | Needle Bar Connection (needle bar set screw No. 88 A, link pin set screw No. 78) - - - - - | 2 |
| 35768 A | Screw, left, for upper crank chamber cover - - - - - | 3 |
| 35833 A | Presser Spring Regulating Stud (nut No. 258 A) - - - - - | 7 |
| 35833 C | Presser Spring Plate - - - - - | 9 |
| 39236 A | Needle Rear Guard Washer - - - - - | 4 |
| 41046 D | Upper Feed Bar Arm Pin (screw No. 90) - - - - - | 7 |
| K42774 | Upper Feed Dog, for Style 51100 N (attaching screw No. 22528, adjusting screw No. 906 A, adjusting screw nut No. 907) - - - - - | 1 |
| K43502 | Presser Foot, for Style 51100 N (clamp screw No. 91) - - - - - | 1 |
| 51001 | Cloth Plate, for Style 51000 A (screw No. 80) - - - - - | 17 |
| 51005 A | Feed Dog, lower, for Style 51000 A (screw No. 22528) - - - - - | 1 |
| 51008 A | Looper, for Style 51000 A (screw No. 73) - - - - - | 2 |
| 51010 A | Looper Needle Guard, for Style 51000 A (screw No. 73 A) - - - - - | 2 |
| 51013 | Looper Rocker, for Style 51000 A - - - - - | 10 |
| *51015 | Needle Lever, includes bushing, for Style 51000 A - - - - - | 14 |
| 51020 A | Presser Foot, for Style 51000 A (clamp screw No. 91) - - - - - | 1 |

LIST OF PARTS

| Symbol to Order By | The figures in the last column refer only to the plates illustrating the parts and are not to be used in ordering. Prices furnished on application. | Plate No. |
|--------------------------|--|--------------|
| 51021 | Pulley (spot screw No. 22597, set screw No. 22597 A, gear attaching screw No. 74) - - - | 10 |
| 51022 | Main Shaft, right section, for Style 51000 A | 14 |
| 51023 | Looper Thread Take-up, for Style 51000 A (spot screw No. 96, set screw No. 22580) - - - - | 10 |
| 51024 A | Throat Plate, for Style 51000 A (screw No. 22570) - - - - - | 1 |
| 51025 A | Needle Rear Guard, for Style 51000 A (screw No. 22585 B, washer No. 39236 A) - - - - - | 2 |
| 51026 A | Upper Feed Dog, for Style 51000 A (attaching screw No. 22528, adjusting screw No. 906 A, adjusting screw nut No. 907) - - - - - | 1 |
| *51034 | Feed Bar, lower, including tiltable feed dog holder, for Style 51000 A (set screw No. 22560 B, feed dog supporting screw No. 538, feed dog holder No. 51134 G, holder adjusting screw No. 22863, holder nut No. 1280, holder washer No. 6042 A) - - - - - | 9 |
| 51034 A | Feed Bar Shaft - - - - - | 13 |
| 51034 L | Feed Bar, upper, for Style 51000 A - - - - - | 9 |
| 51034 M | Upper Feed Bar Arm, for Style 51000 A (pin No. 41046 D, pin screw No. 90) - - - - - | 9 |
| 51034 N | Upper Feed Bar Spring, for Style 51000 A - - - | 9 |
| 51035 | Feed Rocker, .562 inch diameter stem, for Style 51000 A (screw No. 98) - - - - - | 10 |
| 51035 A | Feed Rocker Arm, .561 inch diameter hole, for Style 51000 A (locking stud No. 55235 D, locking stud washer No. 6042 A, locking stud nut No. 55235 E) - - - - - | 9 |
| 51036 | Feed Crank Stud (nut No. 269) - - - - - | 2 |
| *51041 | Looper Connecting Rod Ball Joint Assembly, right, for Style 51000 A equipped with looper drive lever No. 51242 V (bearing screw No. 97 A, nut No. 18) - - - - - | 2 |
| *51041 C | Looper Connecting Rod, jointed section and ball joint assembly, for Style 51000 A equipped with looper drive lever No. 51242 V (ball stud washer No. 36 G, bearing screw No. 97 A, jointed section sleeve No. 51240B, sleeve spring No. 51240 C) - - - - - | 10 |
| *51041 D | Looper Connecting Rod, jointed section and ball joint assembly, with .232 inch diameter shoulder on ball stud, for Style 51000 A equipped with looper drive lever No. 51042 (ball stud washer No. 51741 E, bearing screw No. 97 A, jointed section sleeve No. 51240D, sleeve spring No. 51240 C) - - - - - | 10 |
| *51041 E | Looper Connecting Rod Ball Joint Assembly, right, for Style 51000 A equipped with looper drive lever No. 51042 (bearing screw No. 97 A, nut No. 18) - - - - - | 2 |

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LIST OF PARTS

| Symbol to Order By | The figures in the last column refer only to the plates illustrating the parts and are not to be used in ordering. Prices furnished on application. | Plate No. |
|--------------------------|---|--------------|
| 51042 | Looper Drive Lever, steel, with .232 inch diameter reamed hole for ball stud, clamping lug on right, for Style 51000 A (spot screw No. 81, clamp screw No. 22882 A) - - - - - | 9 |
| 51042 A | Looper Drive Lever Shaft, for Style 51000 A equipped with looper drive lever No. 51042 - - | 13 |
| 51042 B | Looper Drive Lever Rocker (spot screw No. 81, clamp screw No. 627) - - - - - | 9 |
| 51044 | Looper Rocker Frame, for Style 51000 A (spot screw No. 96, set screw No. 98) - - - - - | 10 |
| 51051 | Presser Bar Guide, for Style 51000 A (screw No. 22560 B) - - - - - | 2 |
| 51051 G | Upper Feed Dog Lifter (screw No. 95) - - - - - | 9 |
| 51054 | Needle Lever Link Pin (clamp screw for upper link pin No. 22864, clamp screw nut No. 51250C, set screw for lower link pin No. 78) - - - - - | 7 |
| 51057 | Cast-off Wire Support, for Style 51000 A (screw No. 22528, washer No. 21657 E) - - - - - | 13 |
| 51058 | Needle Lever Thread Eyelet, for Style 51000 A (screw No. 22747) - - - - - | 6 |
| 51070 | Frame Needle Thread Guide Wire, for Style 51000 A (screw No. 22848, washer No. 20) - - - | 6 |
| 51080 | Throat Plate Support, for Style 51000 A (screw No. 22839) - - - - - | 14 |
| 51080 A | Throat Plate Support Pin - - - - - | 13 |
| 51082 A | Crankshaft Chamber Cover, upper, for Style 51000 A (attaching screw, right, No. 22849, attaching screw, left, No. 35768 A, gasket No. 52882 E) - - - - - | 15 |
| 51082 B | Crankshaft Chamber Cover Oil Drip Plate, for Style 51000 A (screw No. 187 A) - - - - - | 11 |
| 51082 C | Oil Reservoir Top Cover, for Style 51000 A (screw, countersunk head, No. 22524, screw, fillister head, No. 22585 A, gasket No. 51282 M) - - - | 15 |
| 51082 D | Oil Reservoir Top Cover Oil Drip Plate, for Style 51000 A (screw No. 187 A) - - - - - | 11 |
| 51082 E | Oil Reservoir Back Cover, for Style 51000 A (screw No. 22848) - - - - - | 15 |
| 51083 | Hand Lifter, for Style 51000 A (stud No. 22850) | 8 |
| 51085 | Stitch Regulator Index, for Style 51000 A - - - | 10 |
| 51092 | Tension Thread Eyelet (insert No. 668-1, insert ferrule No. 668-14) - - - - - | 6 |
| 51093 | Looper Rocker Stud Oil Tube (screw No. 22829, coupling No. 61294 X) - - - - - | 12 |
| 51093 A | Feed Rocker Oil Tube, also feed lift and looper avoid eccentric oil tube, for Style 51000 A (coupling No. 61294 X) - - - - - | 11 |
| 51093 B | Feed Crank Link Oil Tube, for Style 51000 A (nut No. 12987 A) - - - - - | 12 |
| 51093 C | Needle Lever Link Pin Oil Tube, for Style 51000 A (screw, left, No. 22595, screw, right, No. 22849) - - - - - | 12 |

LIST OF PARTS

| Symbol to Order By | The figures in the last column refer only to the plates illustrating the parts and are not to be used in ordering. Prices furnished on application. | Plate No. |
|--------------------------|--|--------------|
| 51093 D | Right Main Shaft Bearing Oil Tube (coupling No. 61294 X) - - - - - | 12 |
| 51104 D | Looper Thread Cast-off Guide Wire (screw No. 22593) - - - - - | 10 |
| 51108 D | Looper, for Style 51100 N (set screw No. 73) - - - - - | 2 |
| 51110 D | Looper Needle Guard, for Style 51100 N (screw No. 73 A) - - - - - | 2 |
| *51115 | Needle Lever, includes bushing, for Style 51100 N - - - - - | 14 |
| *51134 B | Feed Bar, including tiltable feed dog holder, for Style 51100 N (set screw No. 22560 B, feed dog supporting screw No. 538, feed dog holder No. 51134 G, holder adjusting screw No. 22863, holder nut No. 1280, holder washer No. 6042 A) - - - - - | 9 |
| 51134 G | Feed Dog Holder, tiltable (nut No. 1280, washer No. 6042 A) - - - - - | 6 |
| 51134 L | Feed Bar, upper, for Style 51100 N - - - - - | 9 |
| 51134 M | Upper Feed Bar Arm, for Style 51100 N (pin No. 41046 D, pin screw No. 90) - - - - - | 9 |
| 51134 N | Upper Feed Bar Spring, for Style 51100 N - - - - - | 9 |
| 51135 N | Feed Rocker, .562 inch diameter stem, for Style 51100 N (screw No. 98) - - - - - | 10 |
| 51135 P | Feed Rocker Arm, .562 inch hole, for Style 51100 N (locking stud No. 55235 D, locking stud washer No. 6042 A, locking stud nut No. 55235 E) - - - - - | 9 |
| 51136 | Stitch Regulator Index Washer (locating screw No. 22799 F) - - - - - | 4 |
| 51136 E | Feed Crank Stud, for Style 51100 N (nut No. 269) - - - - - | 2 |
| 51142 | Looper Avoid Eccentric (spot screw No. 96) - - - - - | 5 |
| 51142 A | Feed Lift Eccentric (spot screw No. 96) - - - - - | 5 |
| 51145 | Looper Avoid Eccentric Link, also feed lift eccentric link - - - - - | 2 |
| 51147 | Main Shaft Collar (screw No. 95) - - - - - | 4 |
| 51158 D | Looper Thread Take-up Eyelet (screw No. 22593) - - - - - | 6 |
| 51158 E | Needle Lever Thread Eyelet (screw No. 22747) - - - - - | 6 |
| 51170 E | Frame Needle Thread Guide Wire, for Style 51100 N (screw No. 22848, washer No. 20) - - - - - | 6 |
| 51183 | Hand Lifter, for Style 51100 N (stud No. 22850) - - - - - | 8 |
| 51185 D | Stitch Regulator Index, for Style 51100 N - - - - - | 10 |
| 51186 D | " " Indicator (screw No. 22561) - - - - - | 6 |
| 51190 D | Main Shaft Bearing Housing Gasket - - - - - | 15 |
| 51192 B | Tension Post Ferrule - - - - - | 4 |
| 51192 G | Tension Thread Eyelet (steel insert No. 668-1, insert ferrule No. 668-14) - - - - - | 6 |
| 51193 U | Feed Crank Link Oil Tube, for Style 51100 N (nut No. 12987 A) - - - - - | 12 |
| 51213 | Looper Rocker, for Style 51100 N - - - - - | 10 |
| 51216 | Needle Lever Connecting Rod Tube (nut, left thread, No. 15430 C, nut, right thread, No. 15430 D) - - - - - | 13 |

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LIST OF PARTS

| Symbol to Order By | The figures in the last column refer only to the plates illustrating the parts and are not to be used in ordering. Prices furnished on application. | Plate No. |
|--------------------------|--|--------------|
| 51216 A | Needle Lever Connecting Rod Bearing, upper (screw No. 97 A) - - - - - | 10 |
| 51217 | Needle Bar (set screw No. 88 A) - - - - - | 13 |
| 51225 | Needle Rear Guard, for Style 51100 N (screw No. 22585 B, washer No. 39236 A) - - - - - | 2 |
| 51235 G | Feed Rocker Arm Clamp Screw Washer - - - - - | 4 |
| 51236 A | Feed Lift Eccentric Link Pin and Looper Avoid Eccentric Link Pin (screw No. 77) | 7 |
| *51236 E | Feed Crank Link Assembly - - - - - | 2 |
| 51236 F | Feed Crank Link Ferrule - - - - - | 5 |
| 51240 A | Looper Connecting Rod, adjusting section (nut, right thread, No. 18, nut, left thread, No. 269) - - - - - | 7 |
| 51240 B | Looper Connecting Rod Jointed Section Sleeve - - - - - | 6 |
| 51240 C | Looper Connecting Rod Jointed Section Sleeve Spring - - - - - | 6 |
| *51241 | Looper Connecting Rod, jointed section, and ball joint assembly, right, for Style 51100 N equipped with looper drive lever No. 51242 V (ball stud washer No. 36 G, bearing screw No. 97 A, jointed section sleeve No. 51240 B, sleeve spring No. 51240 C) - - - - - | 10 |
| *51241 D | Looper Connecting Rod Ball Joint Assembly, left, for Style 51100 N equipped with looper drive lever No. 51242 V (bearing screw No. 97 A, nut No. 18) - - - - - | 2 |
| *51241 G | Looper Connecting Rod, jointed section, and ball joint assembly, with .232 inch diam- eter shoulder on ball stud, for Style 51100 N equipped with looper drive lever No. 51242 N (ball stud washer No. 51241E, bearing screw No. 97 A, jointed section sleeve No. 51240 B, sleeve spring No. 51240 C) - - - - - | 10 |
| 51242 H | Looper Drive Lever Shaft, for machines equipped with looper drive lever No. 51242 V - - - - - | 13 |
| 51242 K | Looper Drive Lever Rocker, for Style 51100 N (spot screw No. 81, clamp screw No. 627) - - - - - | 9 |
| 51242 L-595 | Looper Drive Lever Rocker Thrust Washer, .0595 inch thick - - - - - | 4 |
| 51242 L-600 | Looper Drive Lever Rocker Thrust Washer, .0600 inch thick - - - - - | 4 |
| 51242 L-605 | Looper Drive Lever Rocker Thrust Washer, .0605 inch thick - - - - - | 4 |
| 51242 L-610 | Looper Drive Lever Rocker Thrust Washer, .0610 inch thick - - - - - | 4 |
| 51242 L-615 | Looper Drive Lever Rocker Thrust Washer, .615 inch thick - - - - - | 4 |

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LIST OF PARTS

| Symbol to Order By | The figures in the last column refer only to the plates illustrating the parts and are not to be used in ordering. Prices furnished on application. | Plate No. |
|--------------------------|---|--------------|
| 51242 L-620 | Looper Drive Lever Rocker Thrust Washer, .620 inch thick - - - - - | 4 |
| 51242 M | Looper Drive Lever Clamp Screw Washer - - - | 4 |
| 51242 N | Looper Drive Lever, steel, with .232 inch diameter reamed hole for ball stud, clamping lug on left, for Style 51100 N (spot screw No. 81, clamping screw No. 22882 A) - - - - - | 9 |
| 51242 P | Looper Drive Lever Shaft, for Style 51100 N equipped with looper drive lever No. 51242 N - - - - - | 13 |
| 51242 Q | Looper Drive Lever Shaft Bushing, front - - - | 5 |
| 51242 R | " " " " " middle - - - | 5 |
| 51242 S | " " " " " rear - - - | 5 |
| 51242 V | Looper Drive Lever, steel, with threaded hole for ball stud, clamping lug on right (clamp screw No. 74, spot screw No. 81) | 9 |
| 51243 B | Looper Drive Lever Ball Stud, also for Nos. 51015, 51115 (clamp screw No. 22528) - - - | 6 |
| 51243 C | Looper Drive Lever Ball Stud Guide Fork, also for No. 51216 A (screw No. 97) - - - | 6 |
| 51244 | Looper Rocker Frame, for Style 51100 N (spot screw No. 96, set screw No. 98) - - - | 10 |
| 51244 A | Looper Rock Shaft - - - - - | 13 |
| 51244 B | " " " Arm (clamp screw No. 93) - - - | 2 |
| 51244 C | " " " Sleeve - - - - - | 5 |
| 51244 E | " " " Bushing, also feed rocker shaft bushing - - - - - | 5 |
| 51246 | " Rocker Stud Nut - - - - - | 4 |
| 51250 | Needle Lever Stud (screw No. 719) - - - - - | 13 |
| 51250 A | " " " Bushing - - - - - | 5 |
| 51250 B | " " " Thrust Collar (screw No. 719) - - - | 5 |
| 51250 C | " " " Link Pin Clamp Screw Nut - - - | 4 |
| 51254 | " Bar Bushing, upper - - - - - | 5 |
| 51254 A | " " " lower - - - - - | 5 |
| 51257 D | Presser Bar Bushing, lower - - - - - | 5 |
| 51282 B | Face Plate (thumbscrew No. 22837) - - - - - | 11 |
| 51282 E | Crankshaft Chamber Cover, upper, for Style 51100 N (attaching screw, right, No. 22849, attaching screw, left, No. 35768A) | 15 |
| 51282 F | Crankshaft Chamber Cover Oil Drip Plate, for Style 51100 N (screw No. 187 A) - - - | 11 |
| 51282 L | Oil Reservoir Top Cover, for Style 51100 N (screw, countersunk head No. 22524, screw, fillister head, No. 22585 A) - - - | 15 |
| 51282 M | Oil Reservoir Top Cover Gasket - - - - - | 15 |
| 51282 N | Oil Reservoir Top Cover Oil Drip Plate, for Style 51100 N (screw No. 187 A) - - - - - | 11 |
| 51282 R | Oil Reservoir Back Cover, for Style 51100 N (screw No. 22848) - - - - - | 15 |
| 51282 S | Oil Reservoir Back Cover Gasket - - - - - | 15 |

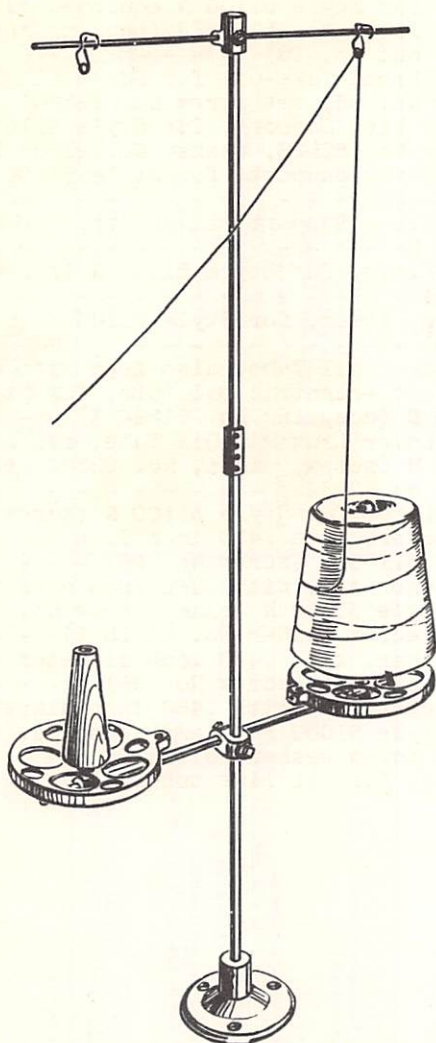
LIST OF PARTS

| Symbol to Order By | The figures in the last column refer only to the plates illustrating the parts and are not to be used in ordering. Prices furnished on application. | Plate No. |
|--------------------------|--|--------------|
| 51282 T | Crankshaft Chamber Cover, right, for Style 51100 N and left, for Style 51000 A (screw No. 90) - - - - - | 11 |
| 51282 U | Crankshaft Chamber Cover Gasket - - - - - | 11 |
| 51290 | Main Shaft Bushing, inner right, 3/4 inch long, for Style 51000 A, also inner left bushing for Style 51100 N - - - - - | 5 |
| 51290 A | Main Shaft Bushing, outer left, 1 9/32 inch long, for Style 51000 A; also outer right bushing for Style 51100 N - - - - - | 5 |
| 51290 D | Main Shaft Bushing, right, 3/4 inch long, for Style 51000 A; also left bushing for Style 51100 N - - - - - | 5 |
| 51290 E | Main Shaft Bushing, middle - - - - - | 5 |
| *51290 P | Main Shaft Bushing Housing, includes bushing (screw No. 22569 B) - - - - - | 9 |
| 51292 | Tension Post - - - - - | 7 |
| 51292 C | " Regulating Nut - - - - - | 4 |
| 51292 F-1 | Tension Spring, .016 inch diameter wire, for looper thread - - - - - | 6 |
| 51292 F-2 | " " .022 inch diameter wire, for looper thread - - - - - | 6 |
| 51292 F-8 | " " .037 inch diameter wire, for needle thread - - - - - | 6 |
| 51292 F-14 | " " .047 inch diameter wire, for needle thread - - - - - | 6 |
| 51293 M | Looper Rocker Stud Oil Tube, for Style 51100 N (screw No. 22829, coupling No. 61294 X) - - - - - | 12 |
| 51293 Q | Left Main Shaft Bearing Oil Tube, for Style 51100 N (coupling No. 61294 X) - - - - - | 12 |
| 51294 F | Oil Tube Coupling, for attaching oil tubes to oil reservoir - - - - - | 7 |
| 51722 | Main Shaft, left section, for Style 51100 N | 14 |
| 51741 E | Washer, for looper connecting rod ball joint assemblies Nos. 51041 D, 51241 G - - - - - | 4 |
| 51745 | Looper Rocker Cone Stud - - - - - | 6 |
| 51751 | Presser Bar Guide (screw No. 22560 B) - - - - - | 2 |
| 51753 | Frame Needle Thread Eyelet, intermediate (attaching screw No. 22848, adapter screw No. 22840, washer No. 20) - - - - - | 6 |
| 52834 N | Looper Drive Ball Joint Locking Stud Nut - - - - - | 4 |
| 52841 | " " " " " " - - - - - | 7 |
| 52882 E | Upper Crank Chamber Cover Gasket - - - - - | 15 |
| 52887 | Presser Spring (locating screw No. 35768 A) | 13 |
| 52887 G | " " Rest - - - - - | 6 |
| 52888 | " Bar - - - - - | 13 |
| 52889 | " " Bushing, upper - - - - - | 5 |
| 55235 D | Feed Rocker Arm Locking Stud, for Nos. 51035 A, 51135 P - - - - - | 7 |
| 55235 E | Feed Rocker Arm Locking Stud Nut - - - - - | 4 |

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LIST OF PARTS

| Symbol to Order By | The figures in the last column refer only to the plates illustrating the parts and are not to be used in ordering. Prices furnished on application. | Plate No. |
|--------------------------|---|--------------|
| ‡55241 N | Looper Connecting Rod Ball Joint Assembly, left, for Style 51100 N equipped with looper drive lever No. 51242 N (bearing screw No. 97 A, nut No. 18) - - - - - | 2 |
| K56749 | Looper Thread Take-up, for Style 51100 N (spot screw No. 96, set screw No. 22580) - - - - - | 10 |
| K56750 | Cast-off Wire Support, for Style 51100 N (screw No. 22528, washer No. 21657 E) - - - - - | 13 |
| K56755 | Throat Plate Support, for Style 51100 N (screw No. 22839) - - - - - | 14 |
| K56760 | Throat Plate Support Pin Holder, for Style 51100 N - - - - - | 5 |
| K58614 | Throat Plate, for Style 51100 N (screw No. 22570) - - - - - | 1 |
| K58615 | Feed Dog, lower, for Style 51100 N (screw No. 22528) - - - - - | 1 |
| K59048 | Feed Rocker Oil Tube, also feed lift and loop- er avoid eccentric oil tube, for Style 51100 N (coupling No. 61294 X) - - - - - | 11 |
| K59292 | Needle Lever Link Pin Oil Tube, for Style 51100 N (screw, right, No. 22595, screw, left, No. 22849) - - - - - | 12 |
| K59837 | Cloth Plate, for Style 51100 N (screw No. 80) | 17 |
| K60323 | Feed Rocker, with .470 inch diameter stem, for Style 51100 N (screw No. 98) - - - - - | 10 |
| K60324 | Feed Rocker Arm, with .468 inch diameter hole, for Style 51100 N (clamp screw No. 22519 C, clamp screw washer No. 51235 G) - - - - - | 9 |
| K60325 | Feed Rocker, with .470 inch diameter stem, for Style 51000 A (screw No. 98) - - - - - | 10 |
| K60326 | Feed Rocker Arm, with .468 inch diameter hole, for Style 51000 A (clamp screw No. 22519 C, clamp screw washer No. 51235 G) - - - - - | 9 |
| 61294 X | Coupling, for oil line tubes - - - - - | 4 |



THREAD STAND ASSEMBLY FOR
STYLES 51000 A, 51100 N

ANALYSIS OF COMPARATIVE SEWING COSTS

This form offers a simple method for you to determine the effect of modern, high speed machines on your production and overhead costs. To use it, merely fill in the starred items. Any Union Special representative will supply the necessary information on the improved machine which will enable you to complete the record.

| *PRESENT MACHINE Style _____ | | *SEWING Operation _____ | | *IMPROVED MACHINE Style _____ | |
|--|--|---|--|--|--|
| *1. Average Daily Production per Machine..... | | Doz..... | | 1. Add _____% (due to increased efficiency of improved machine) to the production shown in the opposite column. Expected production of the new machine is thus..... Doz..... | |
| *2. SEWING COST | | | | 2. SEWING COST | |
| *Average Daily Earnings per Operator.....\$ | | (From your own records.) | | Average Daily Earnings per Operator.....\$ | |
| | | | | (Increased production from improved machine should enable operator's earnings to be increased up to 10%. Add _____% to average daily earnings shown in opposite column.) | |
| *Average Daily Overhead per Operator.....\$ | | (Determine your overhead as a percentage of direct labor from your own records. Multiply the average daily earnings per operator shown above by this percentage.) | | Average Daily Overhead per Operator.....\$ | |
| | | | | (This is the same as the average daily overhead shown in the opposite column, as dollar overhead is not affected when production per machine is increased.) | |
| *Total Daily Sewing Cost per Operator.....\$ | | (This is the sum of earnings and overhead as determined above.) | | Total Daily Sewing Cost per Operator.....\$ | |
| | | | | (This is the sum of earnings and overhead as determined above.) | |
| *Sewing Cost per Dozen.....\$ | | (Divide the total daily sewing costs per operator by the average daily production with your present machine.) | | Sewing Cost per Dozen.....\$ | |
| | | | | (Divide the total daily sewing cost per operator by the average daily production expected from the new machine.) | |
| *3. SAVINGS EFFECTED | | | | 4. REPLACEMENT COST | |
| Per Dozen Garments.....\$ | | | | Cost of improved machine.....\$ | |
| (Subtract the sewing cost per dozen expected with the improved machine from your present sewing cost per dozen.) | | | | Less trade-in or resale value present machine.....\$ | |
| Per Day.....\$ | | | | Less overhauling or repair present machine.....\$ | |
| (Multiply the savings per dozen determined above by the production expected from the improved machine.) | | | | Net cost improved machine.....\$ | |
| Per Year.....\$ | | | | 5. SUMMARY | |
| (Multiply the savings per day by 240 days.) | | | | Number of operating days required to repay net cost..... Days | |
| Less 10% depreciation on net cost of new machine.....\$ | | | | (Divide the net cost of improved machine by the annual savings. Multiply this result by 240 days.) | |
| Net Annual Saving.....\$ | | | | Annual return on net cost.....% | |
| | | | | (Divide the annual savings by the net cost.) | |
| | | | | (Additional copies of this form, size 8½ x 11", available in quantities at cost.) | |



