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INDUSTRIAL SEWING MACHINES

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FOR
INSTALLING AND OPERATING
SEWING HEADS IN CLASS 14500

INCLUDING
LIST OF PARTS

INSTRUCTIONS

CLAS**S** 1450**0**

No. 43
Third
Edition

Union Special MACHINE COMPANY

Catalog No. 43

INSTRUCTIONS

FOR

INSTALLING AND OPERATING

SEWING HEADS

IN

CLASS 14500

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

Third Edition

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Printed in U.S.A.

November, 1965

FOREWORD

The one dominating idea back of "Union Special" is to build the best industrial sewing machines in the world. The name is a synonym for "Superlative Excellence".

It is our constant aim to furnish carefully prepared information that will enable the customer to secure all possible economies and advantages accruing from the use of Union Specials.

Dimensioned drawings of any of our equipment will be gladly furnished to mill engineers for their convenience in allocating floor space. Our engineers will welcome an opportunity to assist in solving your sewing problems

opportunity to assist in solving your sewing problems.

In the pages which follow, detailed instructions are given for installing and operating the sewing heads in Class 14500, including a list of parts.

The following catalogs and prints applying to our Filled Bag Closing Machines will be furnished on request:

Catalog No. 29. List of Parts and information relating to the sewing head transmitter on the Fixed Base Machine Style 20100 H, and the Heavy Duty Machines in Class 20500.

Catalog No. 43 D. Instructions for assembling Table Type Machine Style 21800 C and sewing heads in Class 14500.

Catalog No. 43 E. Instructions for assembling Junior Machine Style 20100 D and sewing heads in Class 14500.

Catalog No. 43 F. Instructions for assembling Victor Machines in Class 20200 and sewing heads in Class 14500.

Catalog No. 43 G. Assembly drawing of Junior Machine Style 20100 D, with list of parts (drawing No. 3218 Q).

Catalog No. 43 H. Sub-assembly drawing of Heavy Duty Machines in Class 20500, with list of parts (drawing No. 5090 Q).

Catalog No. 43 J. Assembly drawing of Fixed Base Machine Style 20100 H, with list of parts (drawing No. 3238 Q).

Catalog No. 43 K. Assembly drawing of Table Type Machine Style 21800 C.

Catalog No. 45. List and description of needles.

Form 357. Engineering Department Adjusting Instructions for sewing heads in Class 14500.

Photo prints of parts for Victor Machines in Class 20200.

Union Special Machine Company

Engineering Department

IDENTIFICATION OF SEWING HEADS

A style number is stamped in the name plate attached to each sewing head. 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: 14500 H. 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: 14500 HZ.

STANDARD STYLES OF SEWING HEADS IN CLASS 14500

- 14500 D Sewing Head, for closing bags made from light weight fabric; short length needle Type 124, double locked stitch Type 401, stitch range-three to eight to inch, standard lengths four and eight to inch.
- 14500 F Sewing Head, for closing bags made from medium weight fabric; short length needle Type 124, double locked stitch Type 401, stitch range three to eight to inch, standard length four to inch.
- 14500 H Sewing Head, for closing bags made from heavy weight fabric; long length needle Type 144, double locked stitch Type 401, stitch range three to eight to inch, standard length four to inch.
- 14500 R Sewing Head, for closing bags made from heavy weight fabric; long length needle Type 144, double locked stitch Type 401, stitch range three to eight to inch, standard length four to inch, includes a friction drive pulley, suspended support, cable and associated parts, 1/4 H.P., friction drive electric motor.
- 14500 Z A special style, similar to the standard styles in Class 14500, but differing in one or more of its component parts.

APPLICATION OF CATALOG

This catalog applies only to the standard styles of sewing heads as listed. It can also be applied with discretion to the special sewing heads in Class 14500.

INSTALLING

READY TO OPERATE

Before shipment, each sewing head is thoroughly run in, accurately adjusted and carefully inspected. This is evidenced by the test sample left in the machine. Each complete apparatus, with the sewing head operating on fabric, is likewise given a thorough test. Packed by skilled hands, they arrive at their destination ready for service.

OPERATING (Cont'd)

OILING (Cont'd)

The sewing head transmitter on the Fixed Base Machine Style 20100 H and the Heavy Duty styles in Class 20500 is lubricated with solid oil through a hollow shaft from a compression cup, which, once a week should be screwed up until the resistance of the grease is noticeable. If, through lack of attention, the pulleys run hot, the compression cup should be screwed up immediately. Refilling will not be required oftener than once a month. No. 3 Arctic Cup Grease, and the contral of the c or its equivalent in consistency will fill the requirements.

CLEANING

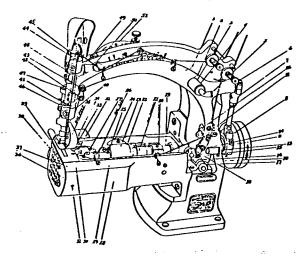
Accumulated lint and dust quickly absorb the oil, which makes it necessary to keep the sewing head as cleas as

Due to the corrosive action in salt blocks, it is necessary to clean the sewing head each day with compressed air or a steam jet, and subsequently spray the working parts

In fertilizer plants, the corrosive action is avoided by submerging the sewing head each night in a vessel containing equal parts of kerosene and machine oil.

SETTING THE NEEDLE

It has two grooves; a short groove terminating in a spot milled out adjacent to the eye, and a long groove extending from the shank to the eye. Insert the needle as far up into the needle bar as it will go with the long groove to the right, and so that the eye will be in line with the direction of the stitches. Then tighten the needle clamp nut with the wrench No. 116, furnished for the purpose.



THREADING AND OILING DIAGRAM

CPERATING (Cont.4)

THREADING

Carry the thread upwardly from the cones, through the thread stand eyelets, and then proceed as shown in the diagram. The two threads should not cross each other. Under no circumstances should the thread be turned completely around the tension posts in threading between the tension discs.

SEXING TWINE

The machines require a sewing twine, as twine for wrapping purposes is too uneven.

We set up below the recommended twine sizes for various bag sizes.

Capacity	Needle Thread	Looper Thread
of Bag	Size	Size
25 pounds	12/3	12/3
50 pounds	12/4 or 10/3	12/3
100 pounds	12/4 or 10/3	12/4
200 pounds	12/5 or 10/4	12/4 or 10/3
250 pounds	12/6,13/5, or 8/4	12/5 or 10/6

REGULATING LENGTH OF STITCH

This is accomplished at the lower end of the wain shaft. There three screws in a row will be found with a lock nut below them. The length of stitch is altered by loosening the nut and turning the stitch regulating screw which is the largest of the three. Turning it clockwise lengthens the stitch. To loosen nut, use wrench No. 115 and turn it is the direction the machine runs. Apply the wrench with the left hand and hold the machine pulley with the right hand.

With the Junior Machine Style 20100 D, which is equipped with a floating bag carrier, the stitch length is regulated entirely as described in the previous paragraph.

With the styles in Classes 20100, 20500 and 21500, which are equipped with conveyors, the stitch length on the sering veyor.

With the Victor styles in Class 20200, the stitch length must be synchronized with the linear speed of the sewing head. As all linear speeds are fixed before shipment, variations in the stitch length outside of the standard lengths specified in the definition of each style are secured by substituting a different size pulley rim on the sewing head that making a longer stitch.

CAUTION

Always tighten the lock nut on the sewing head after any change has been made. Note the effect of turning the stitch regulating screw. If it is turned clockwise too far, the feed dog will strike the ends of the slots in the throat plate. If it is turned counter clockwise too far the sewing head will feed the bag to the right.

The location of the needle rear guard must be readjusted each time the length of stitch is altered.

CPERATING (Cont'd)

SUGGESTIONS

When a machine fails to work satisfactorily, though apparently in good repair, delay can be avoided by checking

- (1) Note carefully whether the machine is threaded in every respect as directed, especially at the tensions, and remove any lint which may have accumulated.
- (2) See that the tension on the needle thread is as tight as is consistent with its strength, and yet avoids puckering
- (3) See that the tension on the looper thread is barely suffi-(4) Try a new needle.

- (5) Clean and oil the machine thoroughly.

 (6) The throat plate needle hole may have become roughened. which will cause breaking of the threads. This can be remedied by smoothing out the hole with a narrow strip
- (7) If the foregoing measures fail to relieve the difficulty, it may be assumed that the sewing head needs a general re-adjustment, and the spare head should be substituted.

NEEDLES

TYPE NUMBERS AND SIZES

Each needle has a type number and a size number. The former denotes the kind of point, shank, 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

The type numbers of the needles most commonly used in the styles of machines covered by this catalog are listed below. Set opposite each type number is the description of Type

No.

- 124 Round shank, round point, short length, double groove, Description
- 143 Round shank, round point, No. 2 bag, long length, long point, double groove, spotted, nickel plated.
- flound shank, round point, No. 2 bag, long length, 144 short point, double groove, spotted, nickel plated.

APPLICATION OF TYPE NUMBERS

The styles of machines covered by this catalog are listed herein. Set opposite each style number is the type number of the needle generally used.

NEEDLES (Cont'd)

APPLICATION OF TYPE NUMBERS (Cont'd)

Machine Style No.	. •	Type Nos. o Needles use
14500 p		124
14500 F		124
14500 н		144
14500 R		îШ

ORDERING

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: "100 Needles Type 144 Size .080".

ORDERING REPAIR PARTS

PLATES

Grouped together according to scale will be found illustrations of parts similar in appearance, and to some extent, component parts that go together in the same subdivisions of the mechanism.

When a given design of part is made in two or more sizes, only one illustration is usually shown. In ordering these pieces, it is necessary that the size be specified.

LIST OF PARTS

Turning from the plates to the list of parts, the description of each part and its principal uses will be found. 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 sewing heads covered by this catalog, no specific use is mentioned in the description.

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.

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.

ORDERING REPAIR PARTS (Cont'd)

SUPPLIES

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

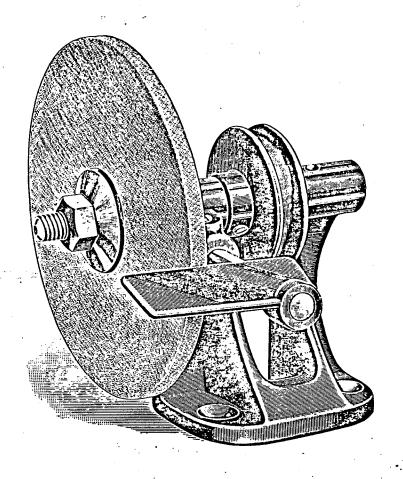
USE GENUINE NEEDLES AND REPAIR PARTS

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 or its subsidiaries. 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 scientific principles, and are made with the utmost precision. The maximum efficiency and durability are assured.

Genuine needles are packaged with labels marked Union Special. Genuine repair parts are stamped with the Union Special trade mark. Each trade mark is your guarantee of the highest quality in materials and workmanship.

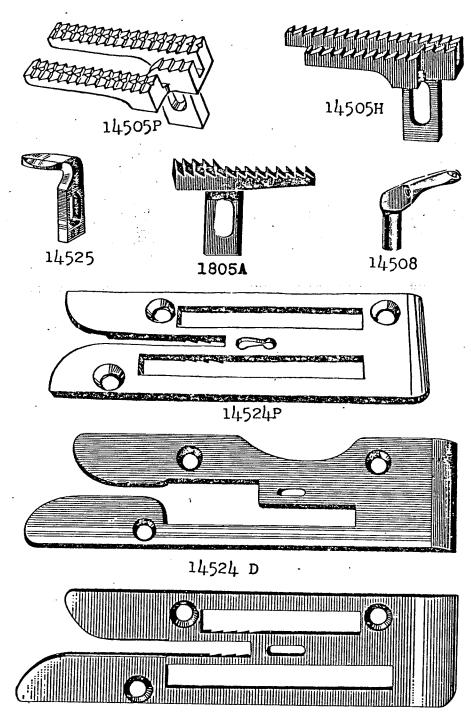
TERMS

Prices are net cash and subject to change without notice. All shipments are forwarded f. o. b. shipping point. Parcel Post shipments are insured unless otherwise directed. A charge is made to cover postage and insurance.



Utility Grinder

Plate 1 - Full Size

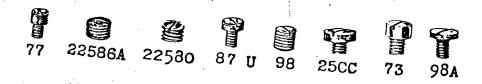


14524Н

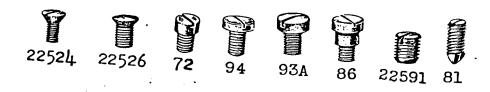
Plate 2 - Full Size 15493A 12534 14530 B 14575 14577 14577P 14536 14527**F** 14520P 14520D

Plate 3 - Full Size











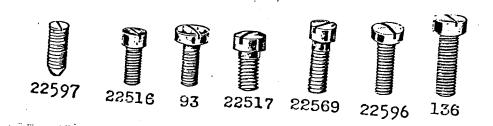


Plate 4 - Full Size

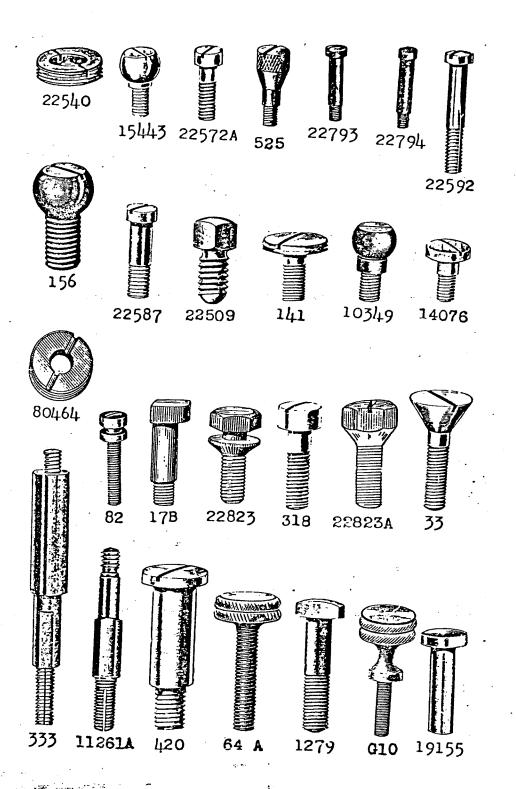


Plate 5 - Full Size

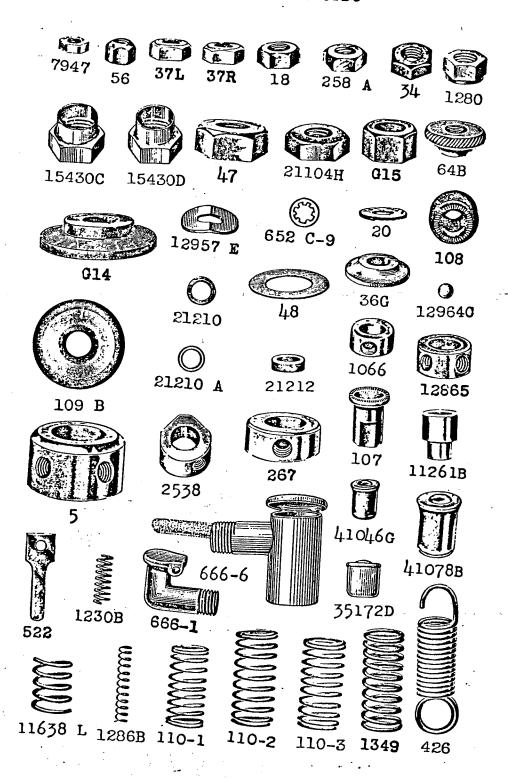


Plate 6 - Full Size

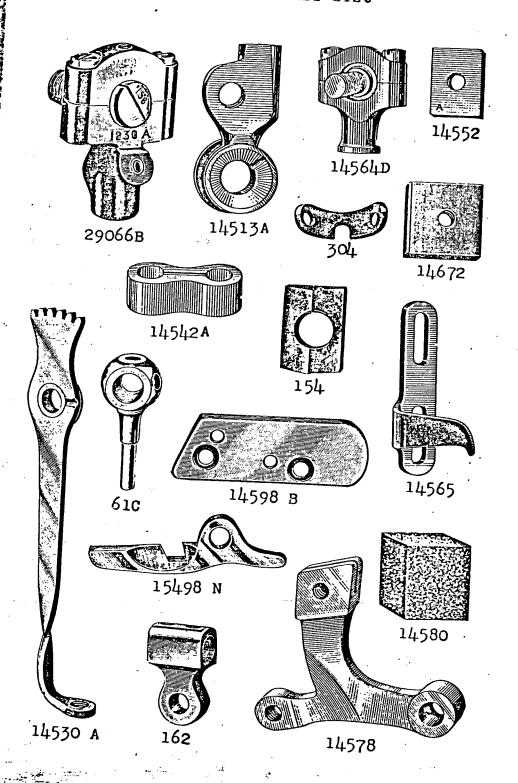


Plate 7 - Full Size

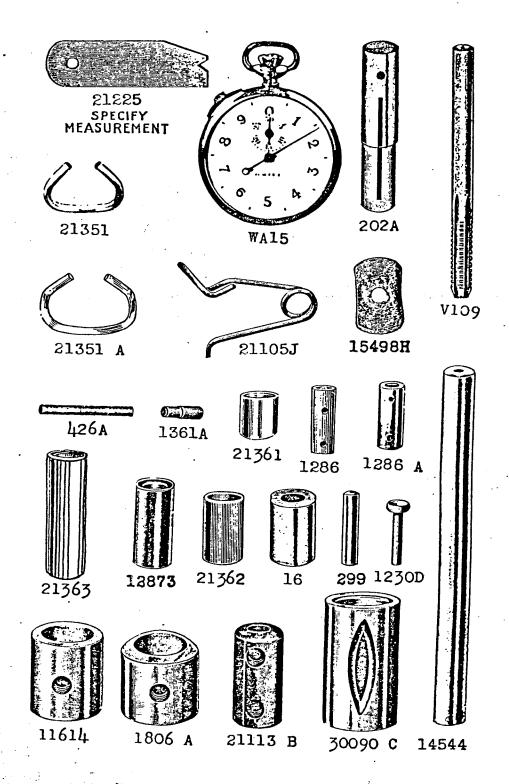
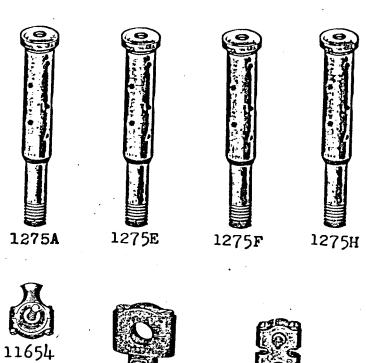


Plate 8 - One-half Size 15430L 118 B TA 55 21104 C 21104 E 21207 116 115 21388 R 21733 A 21145

Plate 9 - One-half Size





1230A



15442 B

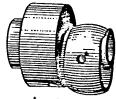


1275J

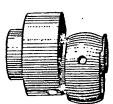
15442 с







14585A



14585B



15430M



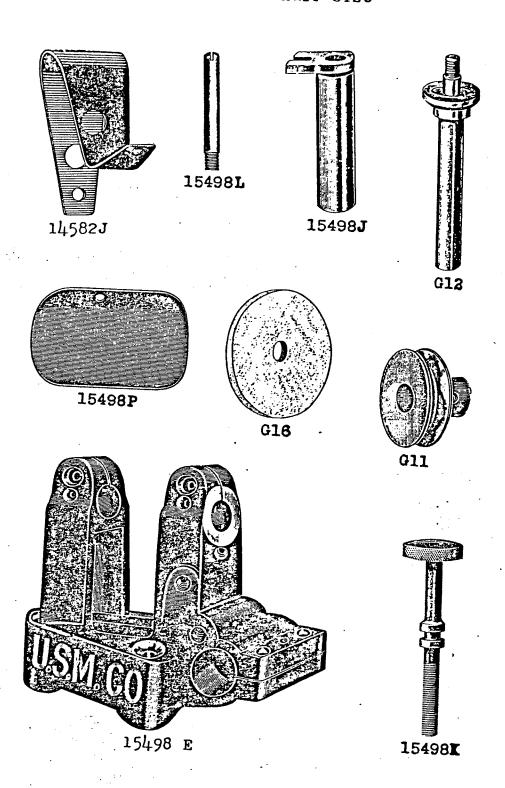
29089F

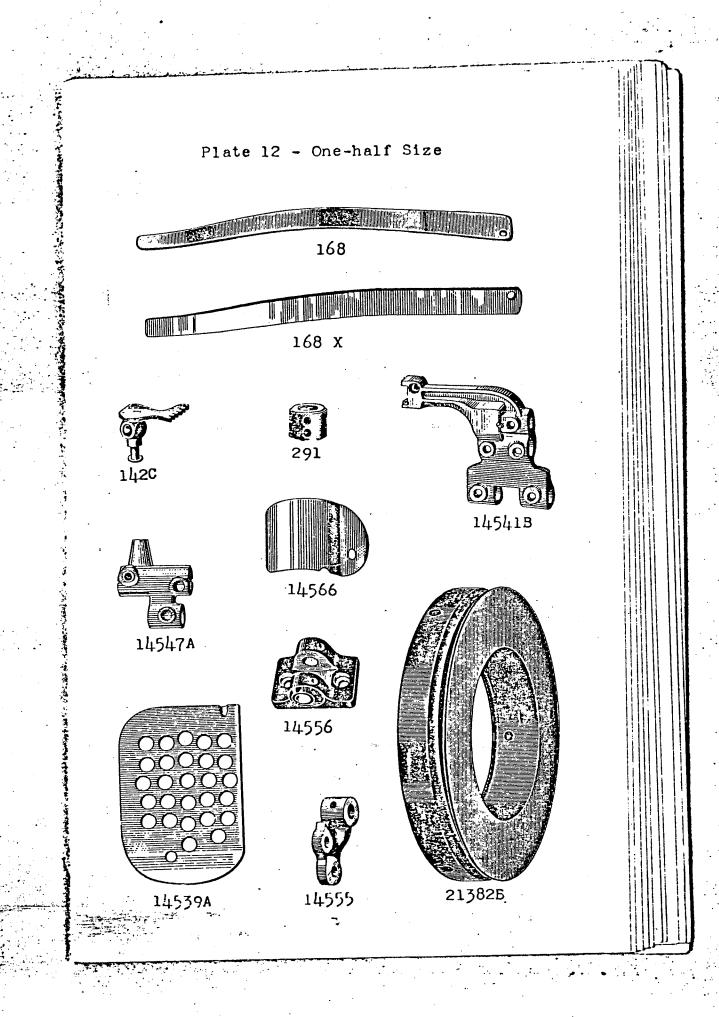


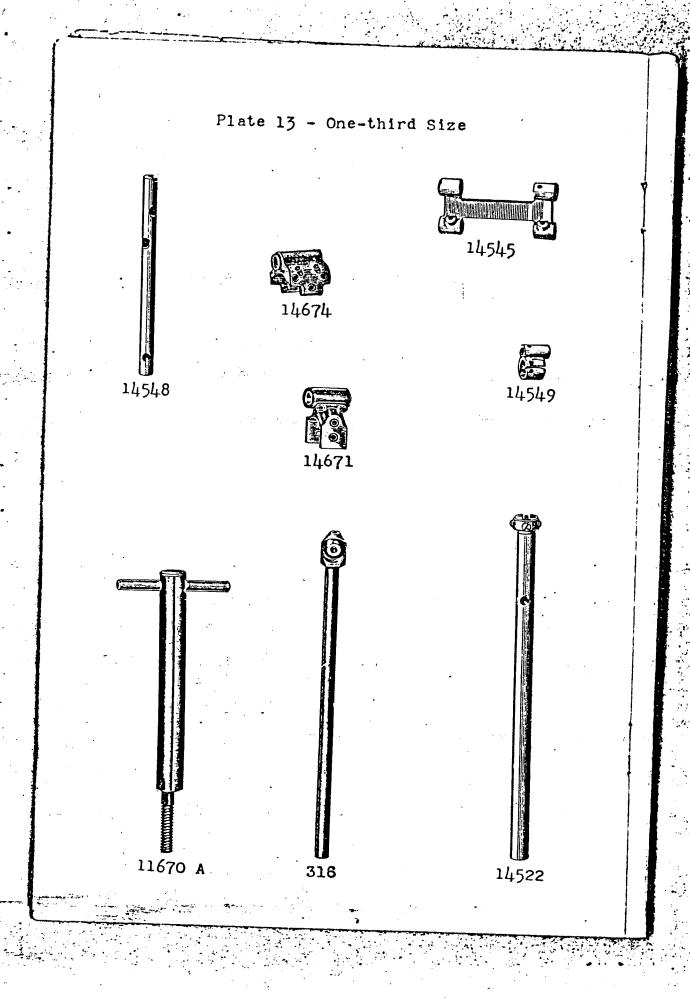
29089G -

Plate 10 - One-half Size 15498G 21113 A 60A 50D

Plate 11 - One-half Size







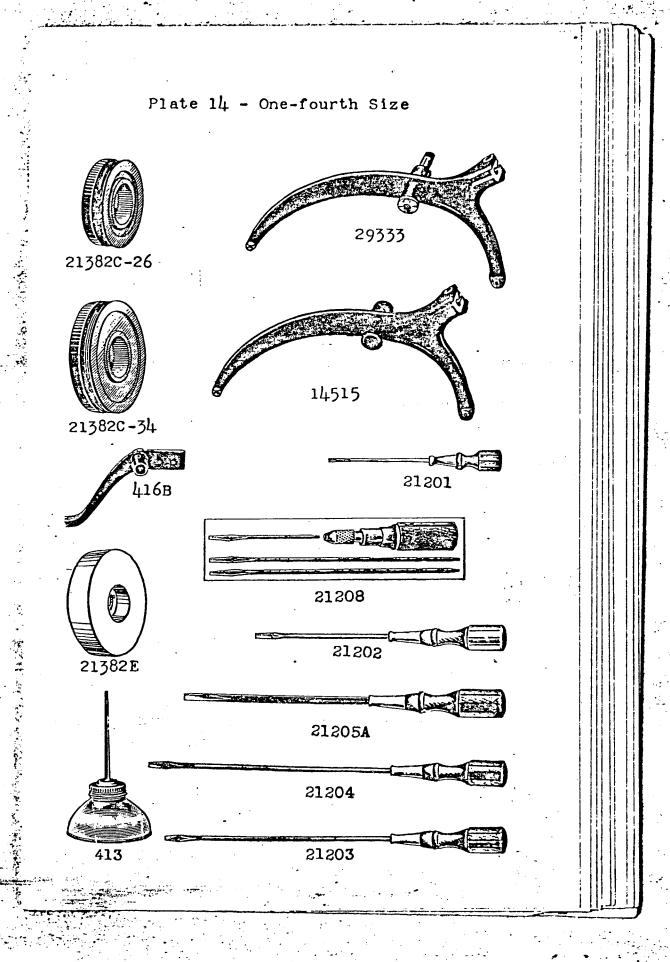


Plate 15 - One-fourth Size Y801 Y503 Y501 Specify Size Specify Size Y802 CO8Y Y505 Specify Size Y 506 Specify Size 21104 B Specify Length 14598 A 29163B

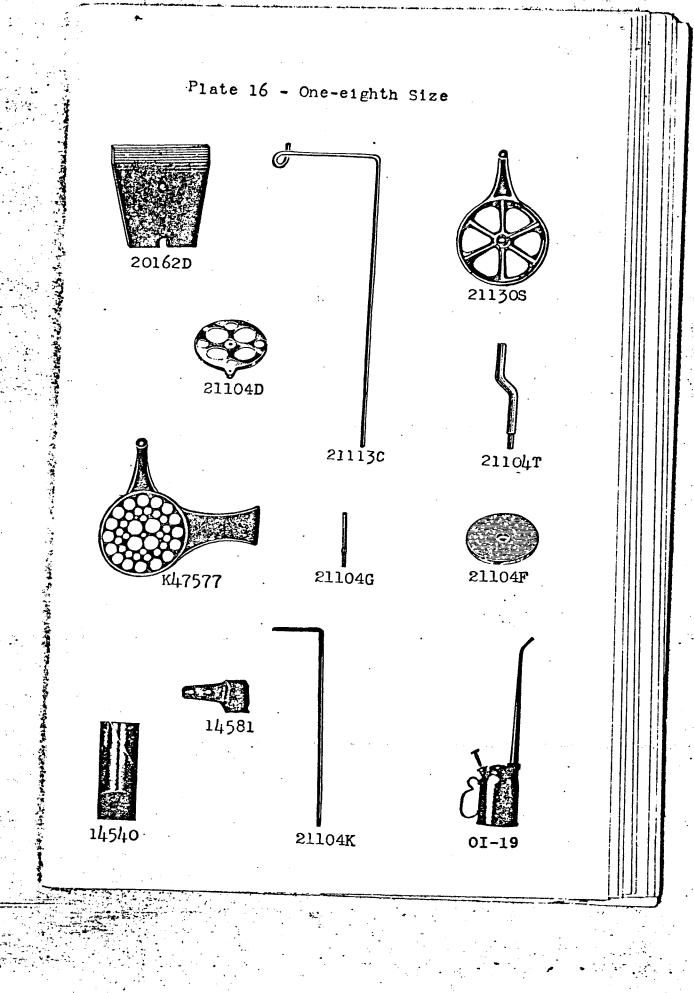
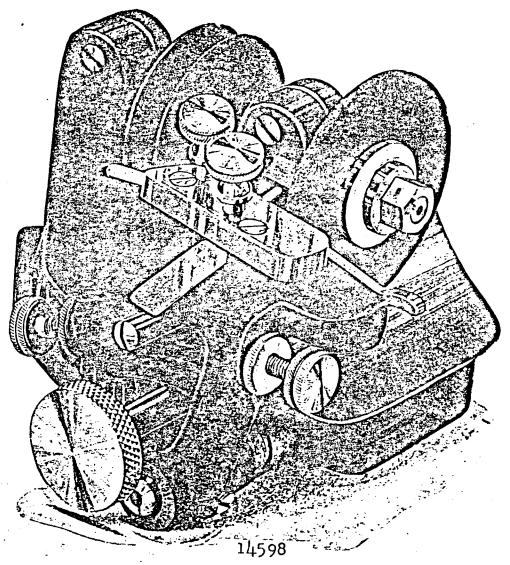


Plate 17 - Three-fourths Size



KNIFE GRINDER

LIST OF PARTS

Symbol	The figures in the last column refer only to the	Plate
to Order By	plates illustrating the parts and are not to be used in ordering. Refer to pink insert for prices.	No.
5 G10	Main Shaft Collar (screw No. 95) Thumb Screw, for holding knives in grinder	5
	No. 14598	4
G11	Pulley, for knife grinder (screw No. 98)	ıí
G12	Pulley Spindle, for knife grinder (screw No. 136)	11
G14	Pulley Spindle Washer, for knife grinder	5
G15	Pulley Spindle Nut, for knife grinder	5 7
VA15 16	Stop Watch	7
G16	Emery Wheel, for knife grinder	11
17 B	Feed Crank Stud	4
18	" " Nut; also for No. 11654	5 16
0I - 19-	Pressure Pump Oil Can, 1 1/2 pints capacity	16
20 25 B	Feed Crank Stud Washer, also for No. 14580 Screw, for cylinder cover spring	5
25 S	for knife housing, also for No.)
-, -	14582 J	3
25 CC	Clamp Screw, for driven knife	3 4 5
33 34	Looper Rocker Stud	4
36 G	When Looper Connecting Red Rell Telet	5
	Upper Looper Connecting Rod Ball Joint Washer	5
37 L	Looper Connecting Rod Nut, lower, left	_
37 R	thread	5
7.	thread	5
39 47	Frame Looper Thread Guide	5 2 5 5
	Needle Lever Stud Nut	5
48 50 D	" " Washer	.5
50 D 52 A	Bar (screw No. 88 A)	10
<i>)- 1</i>	" Lever Thread Eyelet, lower (screw No. 98 A)	2
54	" Lever Link, lower	9
54 A	" " upper	9
TA54	Hand Tally	
TA55	Tachometer, 4 speed type, 90 to	
56	12000 R.P.M Needle Clamp Nut	.5 .5
56 60 A	Presser Bar, standard diameter .319 inch,	٠,
	for Style 14500 D	10
60 A-322	standard diameter plus .003	
60 4-325	inch	
. 60 A-325	standard diameter plus .006	
60 A-328	standard diameter plus .009	
	inch	
60 A-331	standard diameter plus .012	
	inch	_
60 A-334	standard diameter plus .015	•
	inch	
	-20-	

-29-

-			
	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. Refer to pink insert for prices.	Plate No.
	61 C	Presser Bar Connection (screw, right, No. 88,	<u> </u>
	.	screw, 1ert, No. 77)	6
	62 C	Presser Guide Bar, standard diameter .319 inch	10
	62 C-322	" " standard diameter plus	
		.003 inch	
	62 C-325	standard diameter plus	ſ
		.006 inch	_
	62 C-328	." " standard diameter plus	
	_	.009 inch	
	62 C-331	" standard diameter plus	
		.012 inch	
	62 C-334	" " standard diameter plus	
	· .	.015 inch	
	64 A	" Spring Regulating Screw, also for No.	
	<i>(</i>) -	14090 A	4
	64 B	Spring Regulating Screw Lock Nut. also	•
	/o. =	I or No. 1μ598 A	5
	69 T	Filler Cord Cone Support Pin. for use on had	
	70	crosing frames in Class 21800 [10
	72	Set Screw, for looper eccentric fork	3.
	75 77	for looper	3. 3
	"	" fillister head, for needle lever	
	78	link pin, also for No. 61 C	333433
	81	headless, for needle lever link pin Spot Screw, for feed lift arm	3
	82	Screw for regulating length of the	3
	86	Screw, for regulating length of stitch	4
	87 U	for knife setting gauge on knife grinder for needle thread take-up wire	2
	88	Set Screw, for feed bar, also for Nos. 61 C,	2
		1066, 2538, 12865, 14555, 14578	*
	A 88	Set Screw, for needle bar; also for Nos.	3
		142 C, 14552	7
	89	Set Screw, for feed rocker; also for Nos.	3
		14543, 14550	3
	90	Screw, for frame looper thread take-up; also	,
	_	for No. 14566	3 ·
	91	Clamp Screw, for presser feet	3 ·
	93	Screw, for knife lubricating felt, also for No.	,
		17497 A	3
	93 A	Screw, for grinder swinging frame pivot pin	
	ol.	Iriction washer	3
	94	Screw, for needle thread take-up wire post;	
	05	also for No. 14575	3
	95	Set Screw, for main shaft collar; also for Nos.	
	96	111, 172, 335, 337	3 3
	96 A	Spot Screw, for looper avoid eccentric	3
	/ "	for feed lift cam; also for No.	
	97	Screw for supporting food d	3 · . 3
	97 A	Screw, for supporting feed dogs	3
	′′ "	for looper connecting rod ball joints:	
		also for No. 15442 C	3
		7.0	

-30-

LIST OF FARTS

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. Refer to pink insert for prices.	Flate No.
98	Screw, for looper rock shaft collar; also for Nos. Gll, 267, 14543	3
98 A	for needle lever thread eyelets; also for	
107 108	Tension Spring Ferrule	3 5 5 7
109 B V109	" Disc	5
110-1	Tension Spring, .026 inch diameter wire, for filler cord on Style 14500 P	5
110-2	Tension Spring, .028 inch diameter wire, for looper thread-	5
110-3	Tension Spring, .O4O inch diameter wire, for needle thread on Styles 14500 F. 14500 H.	
111	14500 P, 14500 R	5
115	(screw No. 95)	2 8
116	Wrench, single end, 9/32 inch opening, for needle clamp mut	8
118 B 136	Thread Tweezers Clamp Screw, for pulley spindle on knife	8
137 141	grinder; also for No. 15498 J Cylinder Thread Eyelet (screw No. 98 A) Needle Thread Controller Lever Screw	3 2 4
142 C	Rack (screw No. 88 A)	12 .
154 156 158	Ball	642
162 168	Bar Connection	6
168 X 172	Presser Spring, for Style 14500 P Tension Thread Eyelet, with three holes, for Style 14500 P (screw No. 95)	12 10
202 A 258 A 267	Needle Thread Take-up Wire Post (screw No. 94) Nut, for lower looper connecting rod ball joint Swinging Frame Pivot Pin Collar, for knife	7 5
291 299	grinder (screw No. 98)	5 12 7 6
304 316	Feed Crank Stud Cap (screw No. 22563)	6 13

Symbol to Order By Dates illustrating the parts and are not to be used in ordering. Refer to pink insert for prices. 316-4.00 Looper Avoid Shaft, standard diameter plus		LIST OF PARTS	
order By lates illustrating the parts and are not to be used in ordering. Refer to pink insert for prices. 316-408 Looper Avoid Shaft, standard diameter plus .CO1 inch .CO2 inch .CO3 inch .CO3 inch .CO3 inch .CO3 inch .CO3 inch .CO4 inch .CO5 inch .CO5 inch .CO6 inch .CO6 inch .CO6 inch .CO7			
State Stat			
State Stat		plates illustrating the column refer only to the	ate
316-408 Looper Avoid Shaft, standard diameter plus .001 inch .003 inch .005 inch .005 inch .006 inch .007 inch .007 inch .007 inch .008 inch .009 inch	Order	By used in ordering Recom the parts and are not to be.	
316-408 316-410 316-413 316-415 316-416 316-416 316-416 318-4016 318		pink insert for prices.	
Standard diameter plus	71/ 1		
Standard diameter plus	210-1	408 Looper Avoid Shaft stand	
Standard diameter plus		standard diameter plus	
Standard diameter plus	316-4		
Standard diameter plus	<u>.</u> .	standard diameter plus	
Standard diameter plus Oof inch Style 14500 P Style 14500	316-4	/// B	
Standard diameter plus Standard Standard Standard Standard Standard Standard Sta		standard diameter nine	
Screw, for cylinder- 1009 inch 1009	316-4		
Screw, for cylinder 1		standard diameter plus	
Tension Post, 2 5/8 inches long, for filler cord on Style 14500 P Tension Thread Eyelet, with one hole, length No. 95) Tension Thread Eyelet, with one hole, length No. 95) Tension Thread Eyelet, with one hole, length Overall 1 7/16 inches (screw No. 95) Lifter Lever Casting	318	Screw to009 inch	
on Style 14500 P	333		
Overall 2 1/8 inches, for Style 14500 P (screw No. 95)		on State 2 5/8 inches long, for filler 4	
Overall 2 1/8 inches, for Style 14500 P (screw No. 95)— Tension Thread Eyelet, with one hole, length overall 1 7/16 inches (screw No. 95)————————————————————————————————————	335	Tension Tiller cord	
No. 95 - Tension Thread Eyelet, with one hole, length overall 1 7/16 inches (screw No. 95) 10		Oronalinread Eyelet, with one hole	
10 17 17 18 18 18 18 18 18		Werall 2 1/8 inches, for Style 1/500 Per	
10 10 10 10 10 10 10 10	337	No. 95)	
116 B 120 124 126 12	751	lension Thread Evalet	
116 B 120 124 126 12	1,13	overall 1 7/16 inches (screw ve of length	
120 126 126 127 127 128 128 128 129 129 126 126 126 127 127 128		Oil Can	
Stud- Spring- 4 426 42		Lifter Lever Casting 14	
126 A Y501-257 Y503-319 Expansion Reamer, for needle bar, size .257 inch 15 15 15 15 15 15 15 1		Stud	
Pin			
Y503-319	440 A		
See Page Size 30 10 15 15 15 15 15 15 1	1501-25	Expansion Reamer, for needle b	
Spring 15 15 15 15 15 15	1202-21	for prosecute bar, size .257 inch 15	
Size .322 inch		mide have bar and presser	
Size .325 inch	1505-322		
Y505-407 Y505-407 Y505-410 Y505-413 Y505-413 Y505-416 Y505-416 Y506-530 Size .410 inch	1503-325	5] * * * * * * * * * * * * * * * * * * *	
Y505-407 Size .331 inch 15 for feed drive shaft and looper avoid shaft; size .407 inch 15 Y505-413 Y505-414 Y505-419 Y506-530 Size .410 inch 15 Size .413 inch 15 Y505-419 Y506-530 Size .419 inch 15 Size .410 inc	1503-328	8	
7505-407 for feed drive shaft and looper avoid shaft; size .407 inch	¥503-331		
100 reed drive shaft and looper avoid shaft; size .407 150 size .410 inch	¥505-407	7/ * 5128 • 221 1nch = - 127	
Y505-413 Y505-416 Y505-417 Y505-416 Y505-419 Y505-419 Y506-530 Size .410 inch 15 Size .416 inch 15 Size .419 inch 15 Size .410 inch		10f leed drive short	
Size .410 inch		looper avoid shaft.size log	
Y505-413 Y505-416 Y505-419 Y506-530 Size .416 inch	¥505-410		
Y505-416 Y505-419 Y506-530 Size .416 inch	¥505-413	51Ze .410 1nch	
Y505-419 Y506-530 Size .419 inch	Y505-416	1 - S12e -//13 inch	
Size .419 inch for main shaft, size .530 inch for spring Spring Knob Spring Knob Oil Cup, for needle lever stud for upper main shaft bearing for upper main shaft bearing for frame end of needle lever stud for frame end of needle lever stud for needle lever link pins Feed Lift Link Pin Collar (screw No. 88) No. 22587) Needle Lever Connecting Rod Front Bearing (screw Spring S	Y505-419	512e .416 1nch = [-/	
Cylinder Cover Spring (screw No. 25 B)	Y506-530	.i \$1Ze ./i]O inah (≛/	
Spring Spring Knob	522	Cylinder Comman shaft, size 530 inch 12	
Spring	523	over Spring (screw No. 25 B)	
Spring - Knob	521		
Knob	525	I a " Objectible a a a a a a a a a a a a a a a a a a a	
666-1 666-6 Y800 Y801 Y802 Taper Reamer, for lever end of needle lever stud 1066 Feed Lift Link Pin Collar (screw No. 88) No. 22587) Needle Lever Connecting Rod Front Bearing (screw Spring - State of S			
Y800 Y801 Y802 1066 Teed Lift Link Pin Collar (screw No. 88) 1230 B Spring See Page 0 Taper Reamer, for lever end of needle lever stud for frame end of needle lever stud for needle lever link pins 15 15 15 15 15 15 15 15 15 15 15 15 15		of the control of the	
Y800 Y801 Y802 1066 Taper Reamer, for lever end of needle lever stud for frame end of needle lever stud for needle lever link pins	666-6	or needle lever stud	
Y801 Y802 1066 Feed Lift Link Pin Collar (screw No. 88) 1230 A Needle Lever Connecting Rod Front Bearing (screw Spring -		for upper	
1066 Feed Lift Link Pin Collar (screw No. 88) Needle Lever Connecting Rod Front Bearing (screw Page of Spring	Y801	raper Reamer, for lever end of manager 5	
1066 Feed Lift Link Pin Collar (screw No. 88) Needle Lever Connecting Rod Front Bearing (screw 9) Spring	7802	for frame and of needle lever stud 15	
1230 A Needle Lever Connecting Rod Front Bearing (screw No. 22587) - Spring	1	" " " " " " " " " " " " " " " " " " "	
Needle Lever Connecting Rod Front Bearing (screw No. 22587)		FCCU LITT Time Dam a second attack DIDS = m = 15 m	
1230 B No. 22587) 9 Needle Lever Connecting Rod Front Bearing Valve 9 Spring 9	17520 V	Needle Lever Connectant (screw No. 88) 12	
See Page 0	4	No. 225871 Comb Dearing (some)	
Spring	1230 B	Needle toron o	
	1"	Connecting Rod Front P.	
	See P	opring Bearing Valve	
74-	Page 9		•
		<i>J</i>	•

	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. Refer to pink insert for prices.	Plate No.
-	Needle Lever Connecting Rod Tube (nut, left thread, No. 15430 C, nut, right thread, No. 15430 D)	10
	Needle Lever Connecting Rod Front Bearing Valve	7
-	Needle Lever Stud, taper bearing, standard	9
1275 E	Needle Lever Stud, plus size on FRAME section, viz: .001, .002, .003, .006, .012, .018 inch; specify plus amount. Example: 1275 E-003 represents a stud plus .003 inch on FRAME	_
1275 F	Needle Lever Stud, plus size on LEVER section, viz: .001, .002, .003, .006 inch; specify plus amount. Example: 1275 F-003 represents a stud	9
1275 Н	plus .003 inch on LEVER section Needle Lever Stud, plus size equal on EACH section, viz: .001, .002, .003, .006 inch; specify plus amount. Example: 1275 H-003 represents a	<u>.</u> 9
1275 J	stud plus .003 inch on EACH section	9
	tion, viz: (.001, .002) (.001, .003) (.001, .006) (.002, .001) (.002, .003) (.002, .006) (.003, .001) (.003, .002) (.003, .006) (.006, .001) (.006, .002) (.006, .003) (.012, .001) (.012, .002) (.012, .003) (.012, .006) (.018, .001) (.018, .002) (.018, .003) (.018, .006). Specify plus amounts, arranged FRAME section first and LEVER section last. Example: 1275 J-003-006 represents a stud plus .003	
	inch on FRAME section and .006 inch on LEVER section; 1275 J-006-003 represents a stud plus .006 inch on FRAME section and .003 inch on LEVER section (screw No. 22586 B) Needle Lever Stud Felt No. 15430 L Note: Before lapping the bearing of a needle lever and a needle lever stud remove the felt from the stud and replace it after the lapping	9
1279	compound has been washed out. Needle Lever Ball Stud Clamp Bolt	4
1280 1286	" Nut Link Pin Assembly; one each Nos.	5
1286	1286 A, 1286 B, 12964 C, 22560 Link Pin (set screw, fillister head	7
1286 1	No. 77, set screw, headless No. 78) Link Pin Spring (screw No. 22560)	5.
1349	Tension Spring, for needle thread on Style	5 7
	A Presser Spring Pin	
1806		7

-33-

	Symbol to	The figures in the last column refer only to the plates illustrating the parts and are not to be	Plate No.
_	Order By	used in ordering. Refer to pink insert for prices.	
	2538	Needle Thread Controller Lever Rack Support-	
		ing Collar; also for No. 9274 (screw No.88)	5
	794 7	reed Crank Link Nut	5 5
	9274	Knife Bar Shaft Support Pin	1ó
	10349	" Double Ball Joint Stud, front	4
	11261 A	Tension Post, 1 7/8 inches long	$A = I_{L}$
	11261 B	" Ferrule, 31/64 inch long	1 3
	11614	Looper Avoid Eccentric (spot screw No. 96)	4 5 7 5
:	11638 L	Knile Bar Spring	1 5
:	‡11654	Looper Connecting Rod Ball Joint, upper	1
		(washer No. 36 G, bearing screw No. 97 A,	
		nut No. 18)	9
	11670 A	"T" Screw, for sewing head	13
	12534 .	Needle Bar Thread Eyelet (screw No. 22768,	1-7
		lock washer No. 652 C-9)	2
	12865	Feed Bar Shaft Collar (screw No. 88)	5
	12873	Needle Bar Bushing (clamp screw No. 2256c)	5
	12957 E	Cylinder End Guard Spring Washer	5-2
	12964 C	Needie Lever Link Pin Ball	[
	14076	Cvlinder End Guard Pivot Stud	5 5 4
	14505 H	Feed Dog, for Styles 14500 F, 14500 H.	+
		14500 H (screw No. 22596)	1
	14505 P	Feed Dog, for Style 14500 P (screw No. 22596)	ī
	14508	Looper (screw No. 73)	١ī
	14513 A	Looper Rocker	6
	14515	Needle Lever	14
	14520 D	Presser Foot, for Style 14500 D (clamp screw]
	31 500 B	No. 91, hinge screw No. 22793)	2
	14520 P	Presser Foot, for Style 14500 P (clamp screw	
	11.000	No. 91, hinge screw No. 22794)	2
	14522	Main Shaft, standard diameter .530 inch	17
	14522-533	standard diameter plus .CO3 inch	
	14522-536	" " Standard diameter plus .006 inch	-
	14524 D	Throat Plate, for Style 14500 D	1
	14524 н	for Styles 14500 F, 14500 H,	
	14524 P	14500 R	1
	*4 <i>)</i> 24 1	Throat Plate Seren No. 2000 P	1
	14525	Throat Plate Screw No. 22524	•_
	14527 F	Needle Guard, marked "BZ" (screw No. 22596)	1
	14/-1 1	Presser Foot, for Styles 14500 F, 14500 H,	
	•	14500 R (clamp screw No. 91, hinge screw No. 22794)	
	14529 B	Cylinder, for Styles 14500 D, 14500 F,	2 .
		1/1500 H 1/1500 B (nonew 22 719)	
		14500 H, 14500 R (screw No. 318) Note: This part is furnished only when re-	
		pairs are made at factory.	
	\$14530 A	Needle Thread Controller Lever Assembly	
		(screw No. 141)	,
	14530 B	Needle Thread Controller Lever Eyelet	6
	14531	Presser Bar, standard diameter .319 inch, for	2 '
	.,,-	Styles 1/500 P 1/500 P 3/500 P 3/500 P	
		Styles 14500 F, 14500 H, 14500 P, 14500 R	10
	4		

The figures in the last column refer only to the plates illustrating the parts and are not to be used in ordering. Refer to pink insert for prices.			
14531-325	to	plates illustrating the parts and are not to be	
14531-325	14531-322	Presser Bar, standard diameter plus .003 inch-	
14531-328	1/1531-325	# # etanderd diameter nine 006 inch	
14531-334	11.531 300	standard diameter plus .000 inch	
14531-334	14771-720	standard diameter plus .009 inch-	
14536	14221-221	standard diameter plus .012 inch-	
14539 A No. 14076)		standard diameter plus .015 inch-	
No. 14076)		Needle Thread Take-up Wire (screw No. 87 U)	2
14540	14539 A		12
14541 B Feed Bar (set screw No. 88)	11,51,0		
14542 A 14543 Feed Lift Link			
14545		reed bar (set screw No. 00)	
14544			-6
14544	14742	reed Lift Link Pin (screw, front, No. 89,	
14545	11.61.1.		
14546		•	
Standard diameter .319 inch 10			13
14546-322	14546	Shart, 4 13/16 inches long,	
14546-325 Shaft, standard diameter plus		standard diameter .319 inch	10
Shaft, standard diameter plus	14546-322		
14546-328	-1-1-1	.003 inch	
14546-328	14546-325		
14547 A		.006 inch	
Lift Arm and Knife Rocker Arm (screw No. 81)	14546-328	" " Shaft, standard diameter plus	
14548			-
14548	14547 ▲	" Lift Arm and Knife Rocker Arm (screw No.	
14548-408			12
14548-408	14548	" Drive Shaft, 6 1/8 inches long, standard	
inch- Drive Shaft, standard diameter plus .003 inch- Drive Shaft, standard diameter plus .006 inch- 14548-416 "Drive Shaft, standard diameter plus .009 inch- Crank Link (clamp screw No. 22572 A, clamp screw lock nut No. 7947) Crank Link Pin (screw No. 88 A) Lift Cam Fork Shoe (screw No. 88 A) Looper Differential Rocker (screw No. 88) 14555 Looper Connecting Rod Ball Joint, lower (nut No. 258 A, bearing screw No. 97 A) 14566 Stitch Regulating Screw Guard (screw No. 90) 14570 Main Shaft Bushing, upper Crife, stationary (screw No. 94) driven, for Styles 14500 D, 14500 F.		diameter .407 inch	13
inch- Drive Shaft, standard diameter plus .003 inch- Drive Shaft, standard diameter plus .006 inch- 14548-416 "Drive Shaft, standard diameter plus .009 inch- Crank Link (clamp screw No. 22572 A, clamp screw lock nut No. 7947) Crank Link Pin (screw No. 88 A) Lift Cam Fork Shoe (screw No. 88 A) Looper Differential Rocker (screw No. 88) 14555 Looper Connecting Rod Ball Joint, lower (nut No. 258 A, bearing screw No. 97 A) 14566 Stitch Regulating Screw Guard (screw No. 90) 14570 Main Shaft Bushing, upper Crife, stationary (screw No. 94) driven, for Styles 14500 D, 14500 F.	14548-408	" Drive Shaft, standard diameter plus .001	-
inch- 14548-413 "Drive Shaft, standard diameter plus .006 inch- 14549 "Crank Link (clamp screw No. 22572 A, clamp screw lock nut No. 7947) 14550 "Crank Link Pin (screw No. 88) 14555 Lift Cam Fork Shoe (screw No. 88 A) 14556 "Support (screw No. 12 "Looper Differential Rocker (screw No. 88) 14565 Looper Connecting Rod Ball Joint, lower (nut No. 258 A, bearing screw No. 97 A) 14566 Stitch Regulating Screw Guard (screw No. 90) 14575 Main Shaft Bushing, upper- 14577 "Main Shaft Bushing, upper- 14577 "Arive No. 94) 12 14577		inch	
inch	14548-410	" Drive Shaft, standard diameter plus .003	
inch- Drive Shaft, standard diameter plus .009 inch- 14549 "Crank Link (clamp screw No. 22572 A, clamp screw lock nut No. 7947) 14550 Ilft Cam Fork Shoe (screw No. 88) 14555 Looper Differential Rocker (screw No. 88) 14566 Looper Connecting Rod Ball Joint, lower (nut No. 258 A, bearing screw No. 97 A) 14566 Stitch Regulating Screw Round (screw No. 90) 14570 Main Shaft Bushing, upper 14577 Knife, stationary (screw No. 94) driven, for Styles 14500 D, 14500 F.			
inch- Drive Shaft, standard diameter plus .009 inch- 14549 "Crank Link (clamp screw No. 22572 A, clamp screw lock nut No. 7947) 14550 Ilft Cam Fork Shoe (screw No. 88) 14555 Looper Differential Rocker (screw No. 88) 14566 Looper Connecting Rod Ball Joint, lower (nut No. 258 A, bearing screw No. 97 A) 14566 Stitch Regulating Screw Round (screw No. 90) 14570 Main Shaft Bushing, upper 14577 Knife, stationary (screw No. 94) driven, for Styles 14500 D, 14500 F.	14548-413	 Drive Shaft, standard diameter plus .006 	
inch		inch	
inch	14548-416	" Drive Shaft, standard diameter plus .009	
Clamp screw lock nut No. 7947)		inch	-
Clamp screw lock nut No. 7947)	14549	" Crank Link (clamp screw No. 22572 A.	
Crank Link Pin (screw No. 89) 10			13
14552 14555 14556 14566 114564 D 14565 14565 14565 14566 14566 14566 14566 14566 14566 14570 14570 14575 14577 14577 14577 14577 14577 14577 14577 14577 14575 14577 14577 14576 14577 14577 14577 14577 14577 14577 14577 14577 14577 14577 14577 14575 14577 1500 15	14550	" Crank Link Pin (screw No. 89)	
14555 14556 Looper Differential Rocker (screw No. 88) Support (screw No. 22517) 14564 D Looper Connecting Rod Ball Joint, lower (nut No. 258 A, bearing screw No. 97 A) 14565 Frame Looper Thread Take-up (screw No. 90) Stitch Regulating Screw Guard (screw No. 90) 14570 Main Shaft Bushing, upper 14575 Knife, stationary (screw No. 94) driven, for Styles 14500 D, 14500 F.	14552		
14556 114564 D Looper Connecting Rod Ball Joint, lower (nut No. 258 A, bearing screw No. 97 A) 6 14565 Frame Looper Thread Take-up (screw No. 90) - 5 14570 Main Shaft Bushing, upper 10 14575 Knife, stationary (screw No. 94) 2 driven, for Styles 14500 D, 14500 F.			
22517)			~~
Looper Connecting Rod Ball Joint, lower (nut No. 258 A, bearing screw No. 97 A) 6			12
No. 258 A, bearing screw No. 97 A) 6 Frame Looper Thread Take-up (screw No. 90) - 6 14566 Stitch Regulating Screw Guard (screw No. 90) Hain Shaft Bushing, upper	114564 D	Looper Connecting Rod Rall Joint lower (nut	12
14565 Frame Looper Thread Take-up (screw No. 90) 6 14566 Stitch Regulating Screw Guard (screw No. 90) 14570 Main Shaft Bushing, upper	7 7/24 7	No. 258 A. bearing screw No. 07 Al	6
14566 Stitch Regulating Screw Guard (screw No. 90) 12 14570 Main Shaft Bushing, upper 10 14575 Knife, stationary (screw No. 94) 2 14577 driven, for Styles 14500 D, 14500 F.	14565	Frame Looner Thread Take-up (gcrew No. 00)	6
14570 Main Shaft Bushing, upper		Stitch Remieting Screw Chard (none No. 20)	
14575 Knife, stationary (screw No. 94) 2 14577 driven, for Styles 14500 D, 14500 F.		Main Chaft Bushing ware (SCREW NO. 90)	
14577 driven, for Styles 14500 D, 14500 F.		main and to bushing, upper	
		milie, stationary (screw No. 94)	2
14500 H, 14500 R (screw No. 25 CC) 2	*4711	11500 V 11500 P () 14500 F,	
	·	14700 H, 14700 H (screw No. 25 CC)	2

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. Refer to pink insert for prices.	Plate No.
14577 P 14578 14580	Knife Bar (screw No. 88)	6
145 81 14582 J	No. 20)	6 16 11
14585 A	" Lever Eccentric, throw .588 inch, for Styles 14500 D, 14500 F (screw No. 22597)	9
14585 В	Lever Eccentric, throw .634 inch, for Styles_14500 H, 14500 P, 14500 R (screw	
1459 8 14598 A	No. 22597)	9 17
14598 в	nut No. 64 B)	15 6
14653	Looper Connecting Rod (nut, left thread, No. 37 L, nut, right thread, No. 37 R)	10
14671	Looper Avoid Eccentric Fork (set screw No. 72, adjusting screw No. 22592)	13
14672	Looper Avoid Eccentric Fork Shoe (screw No. 22570)	6
14674 15430 C	Feed Lift Cam Fork (set screw No. 22580, spot screw No. 96 A, clamp screw No. 22592)	13
15430 D	Needle Lever Connecting Rod Tube Nut, left thread	5
15430 L	thread	5
‡15430 m	Nos. 1275 A, 1275 E, 1275 F, 1275 H, 1275 J Needle Lever Connecting Rod Rear Bearing (screw	8
15442 в	No. 22587)	9
‡15442 с 15443	Knife Bar Double Ball Joint Shell(screw No.97 A)	9 9 4
15493 A	Filler Cord Guide, attaches to sewing head at lower needle bar lug (screw No. 93)	2
15498 E 15498 G	Grinder Head, for knife grinder No. 14598 Swinging Frame Pivot Pin, for knife	11
15498 н	grinder No. 14598	10
15498 J	(screw No. 93 A) Swinging Frame Adjusting Sleeve (clamp screw No. 136)	7
15498 к 15498 L	Swinging Frame Adjusting Thumb Screw	11 11 11
15498 พิ	Knife Setting Gauge, for knife grinder No. 14598 (screw No. 86)	6
		<u> </u>

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. Refer to pink insert for prices.	Plate No.
15498 F	Dust Guard, for knife grinder No. 14598 (screen No. 22570)	11
19155	reed lift link Pin	4
20162 D	Sewing Read Quick Change Adapter Plate (screw	
20102 D	No. 22823)	16
21104 2-2	Thread Stand Rod, 2 inches long (scree No.	
		15
21104 B-5	five inches long (screw No. 22509)	15.
211C4 B-9	" " nine inches long (screw No.	
	22509)	15
21104 8-20	Filler Cord Support Rod, 20 inches long, for	
	use on bag closing frames in Classes 2010G,	16
		15
21104 C	Thread Stand Rod Connection; also filler cord	8
	support rod (screw No. 22507)	16
21164 0	" Seat	Ê
21104 E	m m Ped	16
21104 F	Thread Stand Seat Pin; also filler cord cone	
21104; C	support pin, for use on filled bag closing	
•	frames in Classes 20100, 20200, 20500	16
21104 H	Thread Stand Seat Pin Nut, also filler cord	
22204 11	cone support pin nut	5
21104 K	Thread Stand Wire, sixteen inches long (scree	16
		16
21104 T	Thread Stand Rod, seven inches long, with	16
0110F F	Shoulder	7
21105 J	" " Extension, 6 inches long	•
21113 A	(screw No. 22632 F-24)	10
21113 B	" " Coupling (screw No. 88)	7
21113 C	Filler Cord Guide Wire	16
21130 S	Filler Cord Cone Support, for use on bag clos-	
	ing frames in Classes 20100, 20200, 20500-	16
21145	Cone. wood, for thread stand	8
21201	Screw Driver, 9/64 inch round blade, length	. .
	overall 7 5/8 inches	14
21202	7/32 inch round blade, length overall 11 1/4 inches	14
03.007	13/64 inch round blade, length	;
21203	cverall 15 1/2 inches	14
21204	" 9/32 inch round blade, length	1
e s e oq	overall 15 inches	14
21205 A	 3/8 inch round blade, length 	<u>.</u>
•	overall 14 inches	14
21207	" 7/64 inch round blade, length	١.
	overall 2 1/2 inches	8
21208	Set, three detachable blades	14
21210	Looper Collar, .040 inch thick	5
21210 A	* .020 inch thick	5

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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. Refer to pink insert for prices.	Plate No.
01010	C D 0-33	_
21212	Presser Bar Collar, for Style 14500 D	5
21225-9/32	Looper Adjusting Gauge, 9/32 inch measure-	
	ment	7
21236	Belt Plier, for 3/8 inch and smaller round	1
	belt	15
21262 A	Sewing Head Belt, round, 9/32 inch diameter,	-
	60 inches long, includes wire belt hook	l
	No 21761 - '	
010/0 D 57	No. 21351	_
21262 B-53	Sewing Head Belt, round, 9/32 inch diameter,	
	53 inches long, includes wire belt hook	·
-	No. 21351	_
21262 C-37	Sewing Head Belt, "V" type, 5/16 inch	
	Sewing Head Belt, "V" type, 5/16 inch diameter, 37 inches long, includes wire	
	belt hook No. 21351	
21262 D-156	Sewing Head Belt, round, 3/8 inch diameter,	•
•	156 inches long, includes wire belt hook	
	No. 21351 A	
21351	Belt Hook, wire, for 9/32 inch round belt	7
21351 A	Belt Hook, wire, for 9/32 inch round belt wire, for 3/8 inch round belt	7
21361	Drive Bushing, 1/2 inch long, for presser	l •
21,01	guide bar bearings, external diameter .407	
•	inch	7
21762		'
21362	Drive Bushing, 25/32 inch long, for front	
	presser bar bearing, external diameter	۱ ,
017/7	.407 inch	7
21363	Drive Bushing, 1-3/16 irch long, for ear	l
	presser bar bearing, external diameter .	l _
	.407 inch	7
21382 B	Pulley Rim, with 6 inch diameter belt	
	groove, for Style 14500 P (screw No.	1
	22597 A)	12
21382 C - 26	Pulley Rim, with 3 1/4 inches working diam-	Į.
•	eter belt groove, for styles making 4	ļ <u>.</u>
]14
21382 C-34	Pulley Rim, with 4 1/4 inch working diameter	l
•	belt groove, for styles making 3 stitches	,
	per inch (screw No. 22569)	14
21382 E	Pulley Rim, without belt groove, 4 1/2	1
	inches diameter, for Style 14500 R (screw	•
	No. 22569)	14
21388 R	Wrench, double end, 3/8 and 1/2 inch open-	
21)00 K	ings	8
21.70%	Utility Grinder, including emery wheel, 5	"
21394		1
	inches diameter, 1/4 inch face, round belt	1
0170 0	drive, recommended speed 3000 R.P.M	<u> </u>
21394 G	Emery Wheel, 5 inches diameter, 1/4 inch	1
	face, 3/8 inch hole, grade "F" emery 60	I
21394 н	Emery Wheel, 5 inches diameter, 1/2 inch	!
	face, 3/8 inch hole, grade "M" emery 60	 -
	l	<u> </u>

	LIST U: PANIS	
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. Refer to pink insert for prices.	Plate No.
21394 K	Utility Grinder, including emery wheel, 5 inches diameter, 1/2 inch face, round belt	
2173 3 A 22509	drive, recommended speed 3000 R.P.M Lifter Lever Extension (screw No. 22528) Set Screw, square head, cup point, 5/16 inch diameter, 18 threads per inch, for thread stand rods: also for No. 21104 C	8 .
22516	Screw, for knife grinder swinging frame top	3
22517	for looper differential rocker support	3 3 3
22524	for throat plates)
22525	.010 inch plus size; otherwise same as	l
/- /	No. 2252h	3
225 26	plus size .036 inch; otherwise same as No. 22524, tap No. V109 for lifter lever extension	3 3
22528	for lifter lever extension	13
22540	lidenter Screw With 5/0 inch hole, io appea	
22,40	main shaft bearing lubricating note	4
22550	Screw, for maintaining location of cylinder	3
22560	headless, for needle lever link pin	_
	spring	3
22563	Clamp Screw, for needle bar bearings; also	-
22569	for Nos. 21382 C-26, 21382 C-34, 21382 E Screw, for looper eccentric fork shoe; also	3
22570	for No. 15498 P	3 3 4
22571	Plug Screw, solid, for knock-out hole	1 %
22572 A	Clamp Screw, for feed crank link	4
22580	Set Screw, for feed litt cam fork; also for	3
22586 A	Screw, for needle lever connecting rod front bearing valve-	3
22587	for needle lever connecting rod bear-	4
22591	Set Screw. for knife grinder swinging frame	3
22592	Clamp Screw, for looper eccentric fork; also	4 3 3 3
22596	Screw for feed dogs and needle guard	13
22597	w for needle lever eccentrics	3
	for pulley rim on Style 14500 P	13
22597 A	h w square head, cup point, 3/16 inch	1
22632 F-2	diameter, 3/8 inch long, 24 threads	3
	per inch, for thread stand wire	3
22768	for needle bar thread eyelet	
22793	Hinge Screw, for presser foot on Style	. 4
22794	Hinge Screw, for presser foot on Styles 14500 F, 14500 H, 14500 P, 14500 R	. 4
22823	Screw, for sewing head quick change adepter	1.
	plate	- 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. Refer to pink insert for prices.	Plate No.
2282 3 A	Screw, for attaching sewing head to column on Style 14500 R	
58607	Transmitter Lubricant, 5 1b. package, No. 3	4
28606-1/2	arctic cup grease	
28606-1	" " 1 1b. package	
29066 В	Needle Lever Connecting Rod Front Bearing Assembly; one each Nos. 1230 A, 156 lapped together and Nos. 1230 B, 1230 D, 22586 A	6
29089 F	Needle Lever Eccentric Assembly, for Styles 14500 D, 14500 F; one each Nos. 14585 A, 15430 M lapped together	
2908 9 G	Needle Lever Eccentric, for Styles 14500 H, 14500 P, 14500 R; one each Nos. 14585 B, 15430 M lapped together	9
291.63 В	Looper Rocker and Looper Avoid Shaft Assembly; one each Nos. 33, 316, 14513 A lapred together and No. 34	9
29333	Needle Lever Assembly; one each Nos. 1275 A, 14515 lapped together and No. 47	14
30090 C	Main Shaft Bushing, lower	7
35172 D	Bearing Spring Valve Oiler, external diameter 21/64 inch	
41046 G	Presser Bar Bearing Spring Valve Ciler	5 5
41078 B	Nain Shaft Fearing Spring Valve Oiler, external diameter 27/64 inch	
к47577	Filler Cord Cone Support, for use on bag	5
к48322	Cylinder, for Style 14500 P (screw No. 318) Note: This part is furnished only when re-	16 -
80464	pairs are made at factory. Plug Screw, with 1/4 inch hole, for opening adjacent to upper main shaft bearing	4
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