



INDUSTRIAL SEWING MACHINES



STYLE 41300 X

FOR STYLE 41300 X

CATALOG NO. T78 R

UNION SPECIAL CORPORATION

CHICAGO

From the library of: Superior Sewing Machine & Supply LLC

Union Special Wants to Help You Cut Sewing Machine Maintenance Costs

Union Special is offering two practical systems to help pinpoint and reduce your sewing machine maintenance costs: a record keeping system to help spot machines requiring abnormally high maintenance, and a parts inventory system to speed routine repairs.

Machine Maintenance Records

Repair-prone machines or inexperienced operators can eat up your maintenance dollars in short order. To help spot these problems, Union Special suggests two variations of a simple maintenance record keeping system using cards provided by Union Special.

The first system utilizes a "Machine Maintenance Record" card (Form 237) for each sewing machine in a plant. When a repair is required, the card is pulled from the file and the repair date, parts used, and their cost are entered in the spaces provided and the card is refiled.

MA	KER S NAME	STYLE	TY	PE NEEDLE	SERIAL NO.	DATE PURCH
DATE	SYMBOL PAR	TUSEO	COST	DATE	SYMBOL PART USED	cos
		FO	RM nine M	237	ance	
		Rec		<u> </u>		

The second system is normally used when more detailed information on repair costs is desired. Two record cards are used: a "Repair Request Card" (Form 234), and a "Machine Repair Record" (Form 233). When a machine requires service, the

	NAME			MAKE	R S OL	NEEDLES EMPLOYED	SERIAL NUMBER	PURCHASI
DATE	FOR Machin	M 2 e Rep	233- air Res	cord C	ald	DATE INVENTORY S MAKER 6 NAM MACH. SERIA OPERATOR'S PCS.	L No.	COST

forelady or foreman fills out the top of a "Repair Request Card" and gives it to a mechanic. He fills in the time the repair work is started, the parts used and their cost, and the completion time. This data is then transferred to the permanent "Machine Repair Record" kept in the office.

Whichever system is used, management now has an invaluable tool to reduce needless maintenance costs.

Repair Part Inventories

While record keeping tells management which machines require abnormally high maintenance, it does little to help reduce the downtime caused by routine repairs. To alleviate this situation, Union Special recommends that manufacturers establish a formal parts inventory system for each type of sewing machine they operate.

Excessive machine downtime and wasted hours by mechanics can be eliminated with an orderly in-plant inventory of the most commonly needed parts. There is no longer a need to cannibalize other machines for spare parts. Long waits for deliveries are avoided and machine downtime is kept to a minimum. The cost of a parts inventory is small when the overall savings are considered.

Style 39500 QB							
Part Number	Description	Minimum Spare Parts Per Machine					
39520 A	Presser foot	1					
39530	Presser foot hinge spring	2					
39597 A	Presser foot stitch tongue marked "DS"	1					
39524 B 3/32	Throat plate marked "V-3/32"	1					
ог	or	-					
39524 B 1/8	Throat plate marked "V-1/8"	1					
22524	Throat plate screw	2					
39526 B	Differential feed dog, 16 teeth per inch	1					
39505 B	Main feed dog marked B, 16 * reth per inc	ch 1					
39505	Screw SAMPLE SAMPLE Spare Parts List Spare Parts List	1					
22528	SCIAN ANDIL	2					
93 A	SAIVII	2					
22797 A	Darts Lis	2					
39570	Spare	4					
14077	N upper knife clamp stud	1					
39549	Lower knife	4					
22588 A	Screw for lower knife clamp	1					
39508 B	Lower looper	1					
39508 A	Upper looper marked "CC"	1					
225646	Screw for upper looper	2					
39551 F	Needle clamp stud	1					
14077	Nut for needle clamp stud	1					
22596 E	Screw for needle driving arm	2					
21225 1/8	Looper guage	1					
154 GAS	Needles (specify size)	100					

For free sample copies of the machine record cards and spare part inventory lists for a variety of the most popular machines, contact your local Union Special Representative or write direct to Union Special.

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Catalog No. T78 R

LIST OF PARTS

Style 41300 X

First Edition

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UNION SPECIAL CORPORATION

INDUSTRIAL SEWING MACHINES

CHICAGO

Printed in U.S.A.

IDENTIFICATION OF MACHINE

Each UNION SPECIAL machine carries a Style number which is stamped in the name plate on the machine. Style numbers are classified as standard and special. Standard Style numbers have one or more letters suffixed, but never contain the letter "Z". Example: "Style 41300 X". Special Style numbers contain the letter "Z". When only minor changes are made in a standard machine, a "Z" is suffixed to the standard Style number. Example: "Style 41300 XZ".

Styles of machines similar in construction are grouped under a class number, which contains no letters. Example: "Class 41300".

APPLICATION OF CATALOG

This catalog applies specifically to the standard style of machine as listed herein.

It can also be applied with discretion to some special machines in Class 41300. All reference to direction, such as right and left, front and back, etc., are taken from the operator's position while seated at the machine. Operating direction of handwheel is away from the operator.

DESCRIPTION OF MACHINE

41300 X Single Thread, Two Cup Feed Machines, for Seaming or Closing Light and Medium Weight Full Fashioned Cashmere Sweaters and Similar Garments Knitted from Wool, Cotton and Synthetic Yarn, Producing a Neat Flat Seam. Seam Type SSa-1, Stitch Type 101 Chain Stitch. Maximum recommended speed 4000 R.P.M.

NEEDLES

Each UNION SPECIAL needle has both a type number and a size number. The type number denotes the kind of shank, point, length, groove, finish and other details. The size number, stamped on the needle shank, denotes the largest diameter of the blade measured in thousandths of an inch across the eye. Collectively, the type number and the size number represent the complete symbol.

Standard needle for Style 41300 X is Type 180 HS. It is a round shank, round point, lockstitch, short length, ball eye, single groove, struck groove, spotted, ball point needle with length of point increased 3/64 inch, chromium plated and is available in sizes 100/040, 110/044, 125/049. Unless otherwise specified, the machine will be equipped with size 100/040.

To have needle orders promptly and accurately filled, the empty package, a sample needle, or type and size number should be given. Use description on label. A complete order would read: "1000 Needles, Type 180 HS, Size 100/040".

Selection of proper needle size should be determined by the size of yarn used. Yarn should pass freely through the needle eye in order to produce a good stitch formation.

Success in the operation of this machine can be secured only with the genuine UNION SPECIAL needles, which are put up in packages marked *Union Special* at the top. This trademark is your guarantee of needles of the highest quality in materials and workmanship.

LUBRICATION

The oil has been drained from the machine before shipping, and the reservoir must be filled before beginning to operate. Use a straight mineral oil of a Saybolt viscosity of 90 to 125 seconds at 100° Fahrenheit.

Oil is filled at the large plug screw hole on the left side of machine, above the handwheel. The oil level should be maintained between the two lines on the oil sight gauge on the right side of the machine.

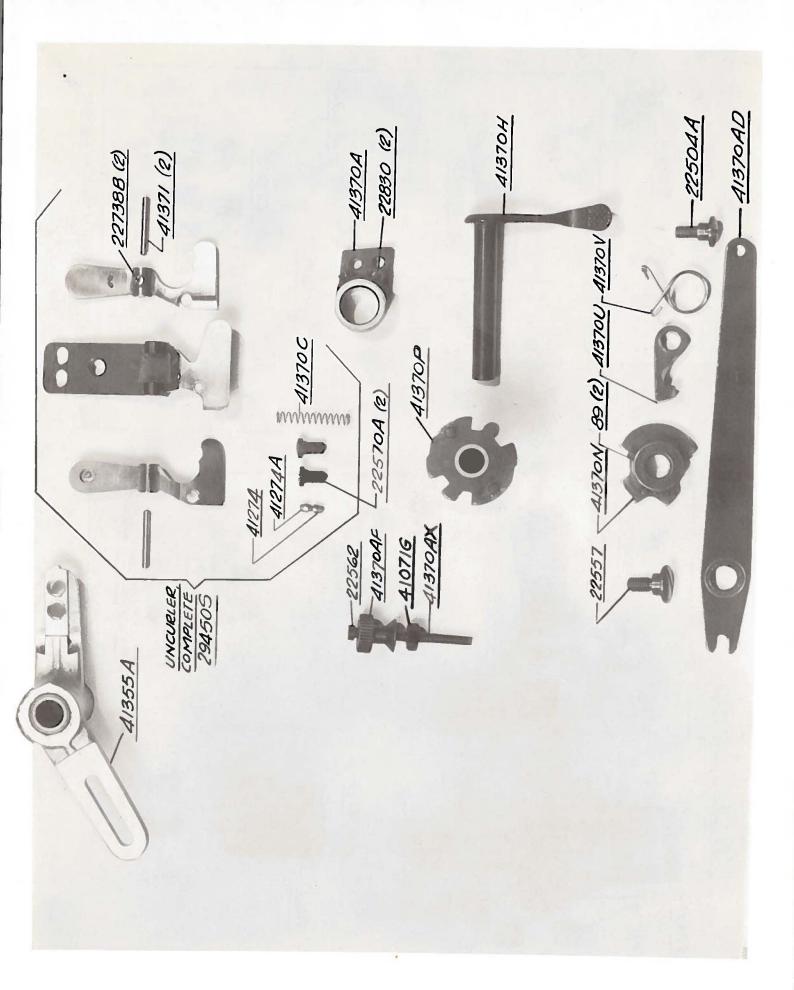
The machine is automatically lubricated, and no other oiling is necessary.

The following is a numerical list of the parts used in this machine. Quantities, part numbers, and descriptions are given. Following the parts list are photographs of some of the major parts.

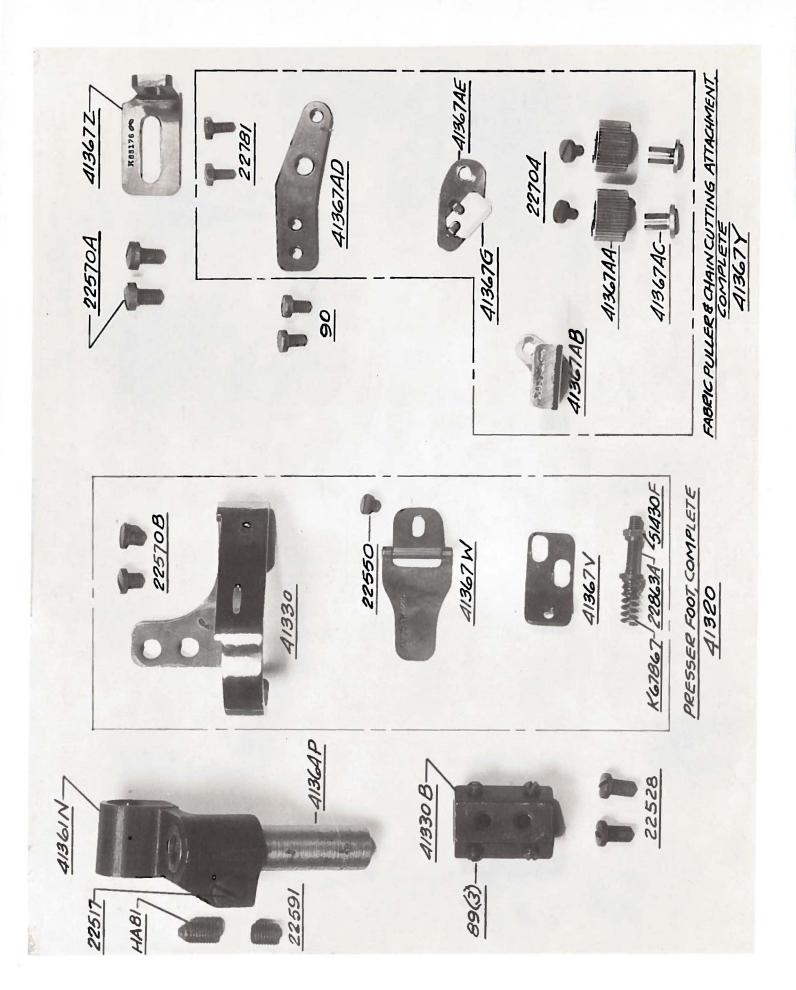
Amt.	Part No.	Description	Amt.			Amt	Part No.	Description
3	18	Nut for 41037 A,	1	22570 A	Screw for 41335A	1	41310	Looper Needle
.	50 010	41331 G, 41357G	2	22570 A	Screw for 41366 P	,	41017	Guard (22547 A)
1	50-216 Blk.	Pin for 41381 E	2 2	22570 A 22570 A	Screw for 41367 Z Screw for 41367AF	1	41317	Needle Bar marked "BH" (22584)
1	50-932	FILL 101 41301 E	2	22570 A 22570 B	Screw for 41367 V	1	41318 A	Needle Holder
- I	Blk.	Feed Cup Hole			or 41367 AK			(605 A)
		Plug, for 1 cup	1	22584	Screw for 41375 F	1	41320	Combination
8	75	machines Screw for 41380B	1	22584	Needle Bar Set Screw			Presser for 1 cup machines
6	79	Screw for 41300B	2	22587 E	Screw for 29126AN.			(22570 A)
1		41390 C	_		29126CS, 29126CT	1	41321 B	"V" Belt Pulley
2	88	Screw for 12865	1	22596 D	Screw for 41039 A			(98)
2	88	Screw for 39147D	3	22597 B	Screw for 41358 M	1	41321 C	Round Belt Pulley
3	88	Screw for 41335A, 41362 B	2 2	22704 22707 A	Screw for 41367AA Adjusting Screw	1	41322 F	(98) Crankshaft
3	89	Screw for 41330B	-	22,07 11	for 41358 B	î	41330	Bottom for 41320
2 2	89	Screw for 41370 N	1	22733 B	Plug Screw for	1	41330 B	Front Fabric Supp.
	90	Screw for 41367 Y		2	needle bar adjust-		ĺ	Brkt. (89, 22528,
1 1	90 90	Screw for 41376 B Screw for 41370AF			ing opening (41394 A)	1	41331 G	22764 A) Looper Eccentric
i	93 A	Screw for 41370AF	2	22738 B	Screw for 41371	1	41331 G	Connecting Rod
1	94	Screw for 41366 R	4	22743	Screw for 41363,			(18, 269)
2 2	94	Screw for 41370BC			41363 A, 41363U	1	41332 A	Bushing for looper
$\begin{bmatrix} 2 \\ 1 \end{bmatrix}$	95 05	Screw for 41360	$\frac{1}{2}$	22743 22747	Screw for 41370 AX Screw for 41332 H.	1	41332 B	bar, front Bushing for looper
2	95 98	Screw for 41361 J Screw for 41321 B	4	22141	41342 H	1	41332 B	bar, rear
2	98	Screw for 41321 C	6	22747	Screw for 41358 N,	1	41332 F	Looper Bar Ball
2	109	Tension Disc		. 5	41358 P			Joint Assembly
1	258 A	Nut for 29126 CT	1	22764	Screw for 41370 BD	١, ١	41000 77	(97 A, 33174B)
3	269	Nut for 41037 A, 41331G, 41357G	3	22764 A	Screw for 29126AN, 29126CS, 29126CT	1 4	41332 II 41332 J	Guide Fork (22747) Thrust Washer
1	454 A	Washer for 41355	3	22764 A	Screw for 41360 G,	1	41332 T	Looper Bar, front
î	562	Screw Pin for lock-	Ĭ		41330B, 41365B			(22565)
		ing machine	2	22781	Screw for 41367 AC	1	41335 A	Looper Lever Shaft
,	605 A	mounting screw Screw for 41318 A	$\frac{1}{2}$	22798 A 22830	Screw for 41318 A Screw for 41370 A	1	41340 B	(88, 22570 A) Spreader
2 2	605 A	Screw for 41316 A	1	22845 G	Fabric Uncurler	1	41342	Spreader Bar
2	660-204	Oil Seal Ring for	-	1 1 1 1	Support Sliding	-		(22562)
		pulley			Bracket Oper-	1	41342 A	Bushing for spreader
1	667 B-12	Hinge Pin for	2	22849	ating Stud Screw for 41380 S	1	41342 F	bar Spreader Bar Ball
		21695 V, for 1 cup machines	1	22863 A	Adjusting Screw for	1	41042 F	Joint Assembly
1	820	Screw for 29478BV	_		41320 or 41367AF			(97 A)
1	6956 C	Spring for 41396	1	29126 AN	Looper Rocker	1	41342 H	Guide Fork (22747)
1	12538 12865	Lock Nut for 41357 J			Motion Eccentric	1	41350	Needle Bar Link Assembly
1 1	21227 BP	Thrust Collar (88) Rear Feed Cup Set-			Assembly (22560B) 22764 A)	1	41350 U	Bushing, for needle
-		ting Gauge	1	29126 CS	Spreader Eccentric	-		bar
1	21227 BR	Needle and Front			Assembly (22560B	1	41350 V	Needle Bar Bushing
		Looper Setting	,	20126 CT	22764 A)		41350 W	Oil Seal Cap
1	21695 V	Gauge Finger Protector,	1	29126 CT	Clutch Driving Leve: Eccentric Assem.		41330 W	Oil Seal Ring for 41363 J
-		for 1 cup machines			(258 A, 22560 B,	1	41350 X	Fiber Washer for
1	21695 W	Finger Protector		*******************************	22764 A)			41350 V
		Spring, for 1 cup	1	29450 S	Uncurler (22570 A)	1	41355	Stitch Regulating
1	21695 X	machines Mounting Bracket,	1	29478 BM	Feed Clutch Driving Lever Connecting	1	41355 A	Adjusting Nut Stitch Regulating
-	220011	for 1 cup machines			Rod Assembly			Segment Lever
1	22504 A	Screw for 41370 U	1	29478 BN	Constant Wedge	1	41355 K	Clutch Drive Ball
2	22516 A	Screw for 41363,			Angle Clutch			Joint Assembly
6	22516 A	41363 A Screw for 41380 J	1	29478 BV	Assembly Fabric Uncurler	1	41355 U	(22729 C) Shim in , 001" sizes
2	22528 A	Screw for 41330 B	•	20410 DA	Mounting Bracket		11000 0	from . 004" to . 009"
1	22533 A	Screw for 41364 J			Assembly (820)			(inclusive) for
1	22539 D	Plug Screw for stitch	2	33174 B	Screw for 41332 F,			clutch drive
- 1		length adjusting opening	1	35746 A	41342 G Washer for 29126 CT			connecting rod assembly
4	22539 E	Plug Screw	1	35746 A	Washer for 41357 J		41357 C	Feed Clutch Driving
1	22547 A	Screw for 41310	2	39147 D	Collar for 41335 A			Lever
2	22548	Screw for 41366 N		4	(88)	1	41357 G	Feed Clutch Driving
1	22550	Screw for 41367 W	1	41037 A	Connecting Rod			Lever Connecting
1	22557	or 41367 AH Screw for 41370 AD	1	41039 A	(18, 269) Looper Bar Conn.	1	41357 Ј	Rod Feed Clutch Driving
2	22560 A	Screw for 41376 AD	•	41009 M	Collar (22596 D)	1	110010	Lever Ball Joint
3	22560 B	Set Screw for	2	41071 G	Nut for 41370 AX			Assembly (35746A,
1	ł	29126AN, 29126CS,		41258	Clutch Roller		41050 0	22729 C, 12865)
1	22562	29126 CT Screw for 41342	1	41274	Guide Pin for 29450 S (41274 A)	1	41358 B	Clutch Compensator Spring (22707 A)
1	22565	Screw for 41342	1	41274 A	Nut for	1	41358 M	Clutch
2	22570 A	Screw for 29450 S			41274			Barrel
2	22570 A	Screw for 41320	1	41308 C	Looper	ı		(22597 B)

Amt.	Part No.	Description	Amt.	Part No.	Description	Amt.	Part No.	Description
1	41358 N	Clutch Disc, upper	1	41367 G	Puller Roller	1	41370 BC	Sliding Bracket (94)
1	41358 P	(22747) Clutch Disc, lower (22747)	1	41367 V	Knife Puller Plate Tens. Adjust. Brkt.	1	41370 BD	Sliding Bracket Guide (22764,
6	41358 Q	Feed Clutch Roller Spring	1	41367 W	for 41320 (22570B) Fabric Puller	2	41371	22845 G) Pin for 29450 S
1	41358 R	Feed Clutch Thrust Bearing			Plate for 41320 (22550)	1	41375	(22738 B) Lifter Lever Rod
6	41358 S	Feed Clutch Roller Spring Pin	1	41367 Y	Puller & Chain Cutting Attach.	1	41375 A	Lifter Lever Rod Yoke
6	41358 T	Feed Clutch Roller Spring Pin Spacing Washer	1	41367 Z	(90) Puller Attaching Brkt. (22570 A)	1	41375 F	Lifter Lever Rod Yoke Collar (22584)
1	41358 U	Oil Seal Washer for 41363 J	2	41367 AA	Puller Roller (22704)	1	41375 G	Lifter Lever Rod Yoke Spring
2	41360	Front Cup Adjust- ing Stud (95)	1	41367 AB	Puller Roller Guard	1 1	41375 N 41375 P	Presser Spring Presser Spring
2	41360 G	Front Cup Adjust- ing Eccentric	2	41367 AC	Puller Roller Axle (22781)	1	41 375 U	Washer Pressure Regulat- ing Screw and
1	41361	Collar (22764 A) Presser Foot Pivot Shaft	1 1	41367 AD 41367 AE	Puller Roller Supp, Arm (90) Puller Roller		41375 V	Bushing Pressure Regulat-
1	41361 Ј	Bushing, for presser foot pivot shaft	1	41367 AF	Knife Holder Front Fabric Supp.		300000 35 00000340 44	ing Screw Lock Nut
1	41361 N	(95) Presser Foot Pivot			and Puller Assem. for 2 cup machines	1	41376 B	Frame Needle Thread Eye. (90)
İ		Shaft Bracket (HA81, 22517, 22591)	1	41367 AG	(22570 A) Adjusting Spring, for 41320 or 41367AF	1 1 1	41380 B 41380 J 41380 S	Top Cover (75) Rear Cover (22516 A) Cover (22849)
1	41361 U	Presser Foot Lifter Lever (22517)	1	41367 AH	Puller Contact Spr. Plate, for 41367 AF	1	41381 E	Oil Distributing Disc (50-216 Blk.,
2	41362 B 41363	Feed Cup (88) Feed Cup Shaft,	1	41367 AJ	(22550) Front Fabric Supp.	1	41381 G	605 A) Oil Spray Deflector
		front, lower section, for 2 cup machines (22516 A, 22743)	1	41367 AK	for 41367 AF Puller Contact Spr. Bracket, for 41367 AF(22570B)	1	41390 A	Plate (93 A) Crankshaft Bear- ing Housing, left (79)
1	41363 A	Feed Cup Shaft, front, upper sect- ion, for 2 cup	1	41370 A	Fabric Uncurler Support Bracket (22830)	1	41390 C	Crankshaft Bear- ing Housing, right (79)
	44.000 7	machines (22516A, 22743)	1	41370 C 41370 H	Spring for 29450 S Fabric Uncurler	1	41390 D	Bushing, for crank- shaft housing, left (41390 A)
1	41363 J 41363 N	Feed Cup Shaft Feed Cup Shaft, Floating Connector,	1	41370 N	Unlocking Lever Fabric Uncurler Ratchet, front	1	41390 E	Bushing, for crank- shaft housing,
1	41363 U	for 2 cup machines Feed Cup Shaft, Collar, for 1 cup	1	41370 P	(89) Fabric Uncurler Ratchet, rear	1	41391	right (41390 C) Crankshaft Thrust Washer
2	41363 U	machines Feed Cup Shaft	1	41370 U	Fabric Uncurler Ratchet Pawl	1	41392	Tension Post Ferrule
		Collar, for 2 cup machines	1	41370 V	(22504 A) Pawl Spring	1	41393	Oil Sight Gauge Assembly
1	41364 J	Bearing, lower rear (22533 A)	1	41370 AD	Fabric Uncurler Support Sliding Arm Operating	2 1 1	41394 41394 A 41394 B	Housing Gasket Gasket for 22733 B Gasket, for top
1	41364 N	Feed Cup Shaft Bushing, front upper section, for	1	41370 AF	Lever (22557) Fabric Uncurler	1	41394 B 41394 C	cover Gasket, for rear
1	41364 P	2 cup machines Front Feed Cup	-		Support Sliding Arm Adjusting	2	41394 D	cover Gasket, for looper
1	41365	Shaft Bushing Feed Cup Driving Gear, for 2 cup	1	41370 AT	Stud Nut (90) Mounting Bracket for fabric uncurl-	1	41394 G	lever shaft holes Washer, for needle bar adjusting
1	41365 B	machines (22560A) Clutch Gear (22764 A)	1	41370 AV	er support Mounting Bracket Shaft	1	41396	screw hole Locking Pin, for machine mounting
1	41366 N	Rear Fabric Support Upper Bracket	1	41370 AW	Mounting Bracket Shaft Spring	1	51292	screw Tension Post
1	41366 P	(22548) Rear Fabric Support Intermediate	1	41370 AX	Fabric Uncurler Mounting Brkt. Adjusting Stud	1 1	51292 C 51292 D	Tension Regulating Nut Tension Eyelet
1	41366 R	Bracket (22570 A) Rear Fabric Support (94)	1	41370 AY	(22743, 41071 G) Adjusting Stud Lock Insert	1 1	51292 F- 4 51430 F	Tension Spring Lock Nut for 22863 A

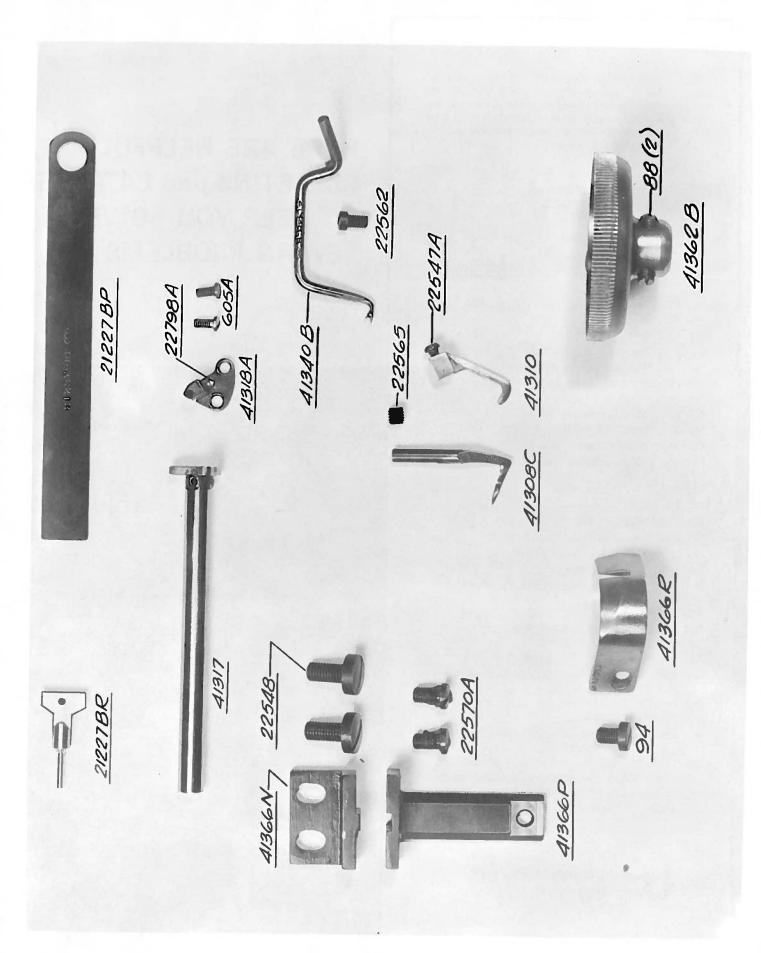
NOTE: Numbers in parenthesis following parts' description indicate the screws, nuts, etc. used to attach or hold these parts.



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Helpful, authoritative information on the most efficient types of equipment for making virtually any machine sewed article is available from Union Special's Sales Promotion Department. Among the many interesting, illustrated bulletins that are available without obligation are the following:



No. 240, "Men's, Women's, Children's Footwear"

No. 249, "Rainwear"

No. 250, "Men's Dress Shirts"

No. 251, "Service Shirts and Pants"

No. 252, "Men's Shorts and Pajamas"

No. 253, "Overalls, Coveralls, and Dungarees"

No. 254, "Men's Knit Underwear"

No. 256, "Knit Outerwear"

No. 259, "Men's Sports Shirts"

No. 260, "Work Gloves"

No. 262, "Cotton, Burlap, Jute, and Multiwall Paper Bags'

No. 263, "Men's Clothing"

No. 264, "Men's Women's, Children's Jackets"

No. 265, "Women's Wear"

No. 266, "Women's Wear And High Fashion"

No. 267, "Corsets, Girdles, Brassieres"

No. 268, "Children's Wear"

No. 269, "Mattresses, Slip Covers, Furniture Upholstery'

No. 271, "Awnings, Canopies, Tents, Tarps"

No. 273, "Curtains & Drapes"

No. 610, "Klipp-it"

No. 710, "MCS ForMation Unit"

No. 730, "MCS Automatic Dual Underfront Shirt Hemmer'

No. 740, "MCS Automatic Rib-Knit Cuff Machine"

No. 750, "Fusing Presses"

No. 1100, "Lewis Blindstitch, Chainstitch, Lockstitch, Machines"

No. 1105, "Button Sewers-Ticket Tackers"

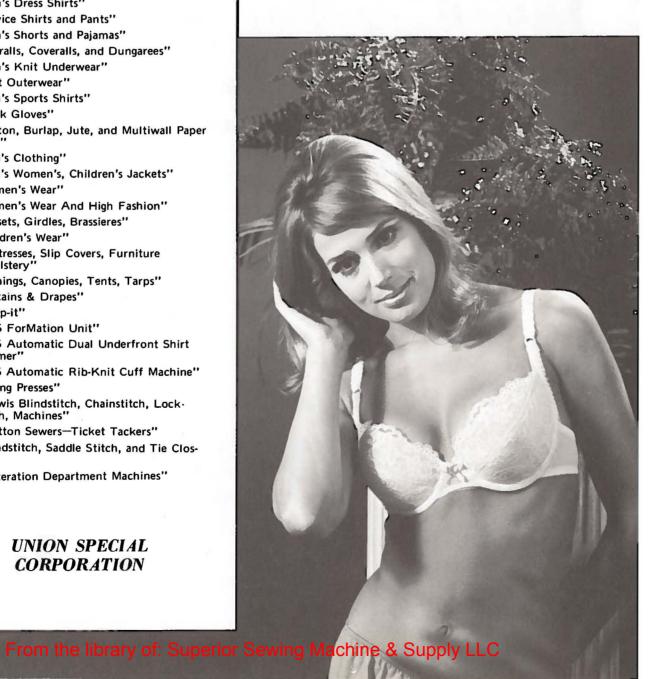
"Columbia Blindstitch, Saddle Stitch, and Tie Closing Machines"

No. 1500, "Alteration Department Machines"



UNION SPECIAL CORPORATION

HERE ARE HELPFUL BULLETINS and CATALOGS TO HELP YOU SOLVE **SEWING PROBLEMS**



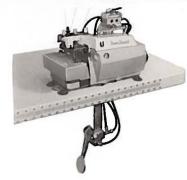
BOOST PRODUCTION WITH THESE WORK AIDS FROM UNION SPECIAL



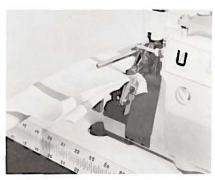
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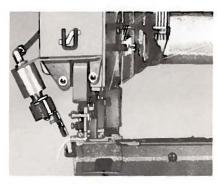
PNEUMATIC CHAIN-CUTTER—for use on conventional Class 39500 and 39600 is a durable scissor-action mechanism that makes a clean positive cut. Style 2899 A-1



PNEUMATIC FOOT LIFTER—The airoperated foot lifter for use on Class 39500 machines allows the operator to raise the foot simply by knee-touching an actuating switch.



AIR FABRIC UNCURLER—This unit, designed for Class 39500 machines, uses air jets to remove curls from top and bottom plies of flat knit materials as fabric passes through sewing area. Style 2899 B-1



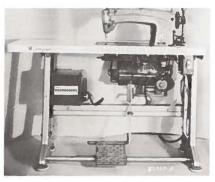
CHAIN CUTTER—The above photo shows the small pneumatic chain cutter that is available for installation as an accessory unit on Class 36200 Flatseamers. Style 2899A-6

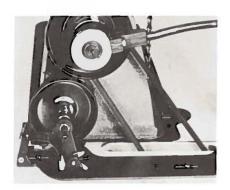


KNIFE GRINDER sharpens straight or angle type knives, is simple and easy to operate, eliminates defective garments caused by dull knives.



HEAT DISPELLER—Union Special's auxiliary unit (arrow) is an effective means for reducing oil temperature where heavy duty service requires it. Style 2899 E-1





AMCO ELECTRONIC NEEDLE POSITIONERS eliminate the necessity of reaching for the hand-wheel to move the needle up or down . . . this allows the operator to keep both hands on the work, insuring better control, uniform quality and increased production.





UNION SPECIAL maintains sales and service facilities throughout the world. These offices will aid you in the selection of the right sewing equipment for your particular operation. Union Special representatives and service men are factory trained and are able to serve your needs promptly and efficiently. Whatever your location, there is a Union Special Representative to serve you. Check with him today.

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