Singer 69-20

Singer 69-21

Singer 81-16

FORM 8931 JUNE, 1923 PRINTED IN U. S. A

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LIST

OF

PARTS



MACHINES Nos. 69-20, 69-21 and 81-16

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INSTRUCTIONS FOR ORDERING

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

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

Every combination of parts sent out as such has its specific number, which, although not stamped on the parts, must be used when ordering the combination.

Each number always indicates the SAME PART in whatever list it appears, or for whatever machine.

The letters after some of the numbers indicate the style of finish only, as follows:

- A. Hardened, Polished and Plated.
- B. Polished and Plated
- C. Hardened only.
- D. Polished only.
- E. Soft, not Polished.
- F. Hardened and Polished.
- G.
- H. Blued.
- J. Plated only.
- K. Hardened and Plated.
- L. Brass or Gilt.
- M. Oxidized.
- F. Japanned.
- R. Parkerized.

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

In this series

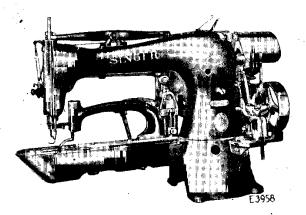
- 1 to 1500 and 50001 to 51500 are Screw Numbers.
- 1501 to 1800 are Nut Numbers.
- 1801 to 2000 are Roller Numbers.
- 2001 to 50000 and 52001 and upward are numbers of Machine Parts.

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

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

LIST OF PARTS COMPLETE

FOR



MACHINE No. 69-20

FOR MAKING THE FERN LEAF DESIGN AT THE UPPER END OF THE CLOCKING ON HOSIERY. MAKES 42 STITCHES IN THE COMPLETE DESIGN.

114	HL COR		- Draid		
NO.	PLATE				AME
55341	8581	Arch	Clamp	Foot	with 55342
39206	8581	"	"	"	Lifter with 17866
190n	5556	"	"	"	" Screw
55342	8581	46	"	. "	Lifting Stud
55343		66	**	44	Plate
217л	5556	"	"	"	" Screw
39303	8581	"	"	"	Spring
217ј	5556	"	"	"	"_Screw (lower)
1175ј	8581	44	44	"	" (upper)
55344	5043	"	"	Fran	ne
14079	8581	"	46	46	Dowel Pin
1811	5021	"	"	"	Delem
55345		Arch	Clamp	com	plete, Nos. 8101, 11751,
		16	54c, 1	8489,	39303, 55341, 55343,
		55	344, 55	348,	55349, 55351, two each
					d five 217j

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NO.	PLATE	NAME
*18439	0501	Arm with 4449, 17844 and two 164E
4389	8581	Dowel I III
4448	3722	Off Tube for intermediate bearing
	3724	Serew
17702	3728	Duart
17703	5001	Dusning (back)
50333c	8581	" " " Adjusting
		Screw
1520E	3724	Arm Shaft Bushing (back) Adjusting
		Screw Nut
*4449		Arm Shaft Bushing (front)
18498	5044	Belt Cover
39290	5001	" . " Bracket with 184E and 17741
	5021	" " Serew Stud
17741	8581	" " Stud
	5556	" " Screw
39222	5001	" Shifter
39222	8581	" " Clamp
1255p		" " Screw
4292	5045	Crank Connecting Rod with 4349 and
4292	9049	two 158E
*4349		Crank Connecting Rod Cap
	3724	" " Screw
	3724	" " Hinge Screw
575C 1518E		" " " Nut.
	3/18	Tiut.
*55346	0501	Cylinder
18388	8581	" Block
1300b		3016M
55347	5046	End Cover
17724	5001	Face Plate
*63736		17724 WIGH 2100
17725		Face Plate complete, Nos. 448c, 600c,
		1560c, 2103, 2107, 2124, 2127, 63736
		and two each 233p and 2102
164D	3724	Face Plate Screw
2107	3722	" " Thread Guard
233р	3722	" " " Screw
55376	5045	Feed Across Connection with 21358, 55377 and four 1057E
55379		Feed Across Connection 55376 with 50598c and 55382
*21358		Feed Across Connection Cap (lower)
1057E	5047	" " " " Screw
*55377		" " (upper)
	5047	" " Screw
18356	5047	" Regulator with 1952
10000	JU40	regulator with 1502

(*)	**		
•	-	NO. PLATE	NAME
	1	50598c 5047	Feed Across Regulator Adjusting Ball Screw Stud
	.>	1676c 5047	Feed Across Regulator Adjusting Ball
			Screw Stud Nut
_		17738 5047	Feed Across Regulator Adjusting Ball Screw Stud Nut Washer
6	T	18357 5047	Feed Across Regulator Hinge Stud
	ļ	690p 5047	" " " Clamp-
	! !	0002 002.	ing Screw
	9	1952 5047	Feed Across Regulator Roller and Stud
		18358 5046	" " Shaft
=2	<u>م</u> ر	18359 5047	" " Collar with two 200r
		200F 5047	" " Set Screw
#	>	18421 5047	" " Crank (back) with
	١ ,	10121 0011	160E and 200c
•	•	FF000 F04H	
(50)	30	55382 5047	Feed Across Shaft Crank (back) Ball Stud
,-		200c 5047	
			Set Screw
	İ	. 160e 5047	Feed Across Shaft Crank (back) Clamping
(1)	130	* · · · · · · · · · · · · · · · · · · ·	Screw
		18362 5007	·Feed Across Shaft Crank (front) with 160E
			and 18363
	Į.	160E 5047	Feed Across Shaft Crank (front) Clamp-
(1)	12	- 1002 001	ing Screw
		.18363 5007	Feed Across Shaft Crank (front) Stud
	1	18364 5007	" " " " " Slide
		10001 0007	Block
#	(A)	10410	
	•	18410 —	Feed Cam with 17874 and two each 190p
		40.44 M MOOR	and 1192c
4	(3)	18415 5007	Feed Cam Driving Worm with 1441c and
•	"=	4.10	1442c
		1442c 5021	Feed Cam Driving Worm Position Screw
-	, cm.	1441c 5021	bet berew
(T)	(2)	17797 5048	" " wheel with
	.1		453c
<	! }=	3012 3722	Feed Cam Driving Worm Wheel Pin
		453c 5007	" " " Set Screw
All A	1 (4)	18384 5007	" " Pin
	1	1192c 3724	" Set Screw
	į	18416 5046	" " Shaft
6	1.30	18417 5049	" " Bracket
-		1177p 5047	" " " Screw (back)
	1	1193р 3724	" " " " (front)
	N .	1653c 3724	" " " Nut
CH	*	55348 8575	" Plate
	1	*18437 5046	" " Carrier Bar
	1		
ì.	. T	8931—2	
-2	1 330		

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NO.	PLATE	NAME
55349		Feed Plate Carrier Bar 18437 with 934J,
		1195E, 1221c, 18390, 55350, 55355, two
		55300 and four 17806
55350	5047	Feed Plate Carrier Bar Block
55351	8575.	" " " Cover
1221c	5007	" " " Screw
55300	8576	" " " Steady Pin
17805	5007	" " " Pivot Block
1194 _D	5007	" " " " " Serew
18390	5007	" " " Plate
934 _J	5007	" " " Screw
1654c	8576	" " Nut
17806	8576	" · " Position Stud
1195e	8576	" " Screw Stud
55352	5048	" Regulator with 1953
55353	5048	" Bracket with 690p, 39310
		and two 160p
55354		Feed Regulator Bracket 55353 with 18356,
		18357, 55352 and 55356
*39310		Feed Regulator Bracket Cap
	5047	" " Screw
8589	3722	" " Dowel Pin
1177E		" " Serew
17744	5047	" " Hinge Stud
55355	5047	" Post
18489	3759	" " Guide
810J	3759	" " Cap Screw
1953	5021	" Roller and Screw Stud
		with 1655c and 14017
1655c	5021	Feed Regulator Roller and Screw Stud Nut
14017	5047	
		Washer
55356	8575	Feed Regulator Swivel
1191p		" " Thumb Serew
55319	8576	Knife (needle thread)
55320	8576	" (shuttle thread)
18370	5044	" Bar with 18373 and two 17822
55357	8576	" " Cap
2190		" " Screw
18372	5016	" Connection with 17917
190n	5556	" " Screw
7071	8576	" " Washer
17915	5016	" " Slide Block
17917		" " " " 17915
		with 17916
17916	5016	Knife Bar Connection Slide Block Stud

670E 5021 " " " Screw. 50029c 3759 " " " Hinge Screw. 18471 3759 " " " " " 18472 — " " " " " " 18471 with 50029c 1177D 5047 Knife Cam Lever Hinge Screw Clamping Screw 1980 3759 Knife Cam Lever Roller and Swith 1654c 1654c 8576 Knife Cam Lever Roller and S. Nut 39330 3759 Knife Cam Lever Slide with 198 39460 — " " " " 39330 wand 39331 1255D 5021 Knife Cam Lever Slide Screw	<u>بر</u>	(4			PARTS	FOF	R MAG	CHINE	No.	69-20	•
39297 5016 Knife Bar Driving Lever with 1 17919 and 39298 Knife Bar Driving Lever Hing 1681c 5016 39298 Knife Bar Driving Lever Lock Screw Knife Bar Driving Lever Lock Screw And Surver 18373 8576 4 " " Rivet 39235 5048 39409 4 " " " " 39235 w And 39409 18470 5048 Knife Cam Lever Bracket with 8589 3722 4 " " " Dow 670E 5021 4 " " " " Screw 18471 3759 4 " " " " " " " " " 18472 18471 with 50029c 1177D 5047 Knife Cam Lever Hinge Screw Clamping Screw 1980 3759 Knife Cam Lever Roller and S with 1654c 1654c 8576 Knife Cam Lever Roller and S with 1654c 1654c 8576 Knife Cam Lever Slide with 198 39460 117825 8576 Knife Cam Lever Slide Screw 39331 3759 39460 39460 39460 39460 39409 39409 39409 39409 39409 39409 39409 39409 39409 3929 3929 3929 3929 3929 3929 3929 39	5.2 %	100	NO	PI.ATE	r.		,	TAREE			
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1681c 5016		•		••••	179	19 an	d 3929	8	W 1011	1900, 1	L4ZUE
1681c 5016	**	₽	13821	5016	Knife	Bar	Drivin	g Lever	Hine	re Sere	2007
39298 5016 " " " Lock 17919 5016 " " " " " " 190b 5556 " " " " " " Screw	_	l i	1681	5016	66	"	"	g 220101	. 111116	50 0010	Nu
17919 5016					**	"	"	"	Lock		
Screw	_		17919	5016	"	**	"	46	1001		pring
18373 8576 Knife Bar Driving Lever Lock Screw	100	: —	190r	5556	46	"	**	"	"	"	- 44
18373 8576 Knife Bar Driving Lever Lock Screw		i			Scr	ew					
Screw 18373 8576 Knife Bar Rack 17822 8576 " " " Rivet 39235 5048 " Cam Lever Body " " " 39235 w and 39409 " " " " Dow and 39409 18470 5048 Knife Cam Lever Bracket with 8589 3722 " " " Dow 670E 5012 " " " " " Screw 18471 3759 " " " " " " " " " " 18472			1420E	5016	Knife	Bar	Drivin	g Leve	r Loc	k Stud	Stor
18373 8576 Knife Bar Rack 17822 8576 " " Rivet 39235 5048 " Cam Lever Body 39409 — " " 39235 w 39329 5048 Knife Cam Lever complete, N and 39409 18470 5048 Knife Cam Lever Bracket with 8589 3722 " " " Dow 670E 5021 " " " Screv 50029c 3759 " " " Hinge Screw 18471 3759 " " " " " 18472 — " " " " " " 18471 with 50029c 1177D 5047 Knife Cam Lever Hinge Screw Clamping Screw 1980 3759 Knife Cam Lever Roller and S with 1654c 1654c 8576 Knife Cam Lever Roller and S Nut 39330 3759 Knife Cam Lever Slide with 198 39460 — " " " " 39330 w and 39331. 1255D 5021 Knife Cam Lever Slide Screw 39331 3759 " " " " " " W 17825 8576 " " " Steady F 17825 8576 " " " Steady F 17826 8576 " " " Steady F 17827 8576 " " " Dowel Pin 17827 8576 " " " Stud 17827 8576 " " " Stud 17827 8576 " " " Stud 17827 8576 " " " Stud 17827 8576 " " " Stud 17827 8576 " " " Stud 17827 Knife Holder Pinion Stud Brack 1698c 5021 " " " " " " " "	•	(30)			Ser	ew					COOL
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39409 — " " " " 39235 w and 39409 18470 5048 Knife Cam Lever Bracket with 8589 3722 " " " Dow 670E 5021 " " " " Screw 50029c 3759 " " " Hinge Screw 18471 3759 " " " " " " " 18472 — " " " " " " " " " 18472 — " " " " " " " " " " " 18472 — " " " " " " " " " " " " " " " " " "	_	in.	39235	5048	"	Cam	Lever	Body.			
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18471 3759 " " " " " " " 18472 — " " " " " " " " " " " " " " " " " "	-	(a. 1	50029c	3759	"	"	. "	Hinge 8	Screw	·	
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39330 3759 Knife Cam Lever Slide with 198 39460	(49)	. (**	1654C	8576	Knife	Cam	Lever	Roller	and 8	Screw	\mathbf{Stud}
39460 — " " " 39330 w and 39331 12550 5021 Knife Cam Lever Slide Screw 39331 3759 " " " " " W 19793 8576 " " " Steady F 17825 8576 " Holder with 17826, 17830 7298 55323 — Knife Holder 17825 with 1198 55319 and 55320 17826 8576 Knife Holder Pinion. 7298 8576 " " Dowel Pin. 17827 8576 " " Stud 17828 8576 " " " Brack 17827 50018r 5021 Knife Holder Pinion Stud Brack 1698c 5021 " " " " " "	- 1		20000	05.50	Nut	· · · · ·					
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7298	(B)	.15.07						~ ~			
55323 — Knife Holder 17825 with 1198 55319 and 55320		Ľ.	11020	0010		morae	r with	17820,	1783	Uand	two
55319 and 55320	4	•	. 55323		Knife	Holde		DK mith	. 110	0~ 17	
17826 8576 Knife Holder Pinion	O	1 3	00020		5521	aroide O and	51 1702	ea win	1 119	oc, 17	829,
7298 8576 " " Dowel Pin. 17827 8576 " " Stud 17828 8576 " " " Brack 17827 50018r 5021 Knife Holder Pinion Stud Brack 1698c 5021 " " " " "			17826	8576	Knife I	Holde	r Pinio	' n		• • • • • •	• • • •
17827 8576 " " " Stud 17828 8576 " " " " Brack 17827 50018F 5021 Knife Holder Pinion Stud Brack 1698c 5021 " " " " "				8576	"	"	"	Dow	al Din	••••	• • • •
17828 8576 " " " Brack 17827	ا ہے	:			"	"	"	Stud	21 1 111	· · · · · ·	• • • •
50018r 5021 Knife Holder Pinion Stud Brack 1698c 5021 " " " " "		-			"	"	"	"	Brac	ket w	rith
50018F 5021 Knife Holder Pinion Stud Brack	-				1782	7			- Lav	WOO M	1 1 VIL
1698c 5021 " " " " "			50018F	5021	Knife I	Iolde	r Pinio	n Stud	Brec	ket S	mour
Nut	() ·	(3)	1698c	5021	"	"	"	- 2544			"
					Nut.						
						•					• • • •

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NO.	PLATE	NAME
1198c	8576	Knife Screw
55321	8576	" (stationary)
*55322	8576	" " Bracket
42639	8576	" " " Pin
50117л	8576	" " Screw
17829	8576	" Thread Holder
17830	8576	" " Position Pin
17831	5046	Needle Bar with 237r
*39203	3718	" " Connecting Link
63756		" " " 39203 with
		21629
377c	3718	Needle Bar Connecting Link Hinge Screw
1518E	3718	
		Nut
21629	3718	Needle Bar Connecting Stud with 155c
155c	3718	" " Set Screw
39350	5045	" " Thread Nipper Driving Lever
		(adjustable) with 39351 and two 335p
39351	3759	Needle Bar Thread Nipper Driving Lever
		Extension
335D	3759	Needle Bar Thread Nipper Driving Lever
		Extension Screw
1196c	3721	Needle Bar Thread Nipper Driving Lever
		Hinge Screw
39352	5045	Needle Bar Thread Nipper Driving Lever
		Spring.
17834	3718	Needle Bar Thread Nipper Lever with
17007	0510	17835
17835	3718	Needle Bar Thread Nipper Lever Bushing " " " Hinge
1200d	3718	
00070	0550	Screw
39276 1329p	8576	" " " " " " " " "
19780	8910	Screw
17837	5045	Needle Bar Thread Nipper Rod
17838	3718	" " " Adjusting
11000	3110	Stud
1651E	5021	Needle Bar Thread Nipper Rod Adjusting
10012	0021	Stud Lock Nut
17839	3718	Needle Bar Thread Nipper Rod Arm with
1,000	0.10	196r
196r	3718	Needle Bar Thread Nipper Rod Arm Set
2002	0.10	Screw
17840	5001	Needle Bar Thread Nipper Rod Support
	5556	u u u u u u
		Screw
237г	3724	Needle Set Screw

		· P.	ARTS FOR MACHINE No. 69-20
胸	**		
э,		NO. PLATE	NAME
		*6022 5001	Oscillating Rock Shaft (steel) with 4784.
		55278	Oscillating Rock Shaft complete, Nos
,	6-1		1513 _J , 6022 and 6489
		6489 5001	Oscillating Rock Shaft Hinge Pin
		1513」 3724	" " " " Nut
60	A .	4784 8576	" " " Oil Pad
,	™	18385 5046	" Shaft
		18386	" " Crank
		18387 5017	Oscillating Shaft Crank complete, Nos
Ð:	1		237F, 1519E, 15171 and 18386
		2049 5017	Oscillating Shaft Crank Pin
Řζ	pt.	237г 5017	" Set Screw
•		15170 5017	" " Slide Block
D	(#F	229р 5017	" " " " Cai
4	↓ ·		Screw
		12424 5017	Oscillating Shaft Crank Slide Block Car
3)	(●	12421 0011	Screw Washer
		1035c 5017	Oscillating Shaft Crank Slide Block Screw
		10000 0011	Stud
•	(a)	1519E 5017	Oscillating Shaft Crank Slide Block Screw
	_	10101 001.	Stud Nut
		15171 5017	Oscillating Shaft Crank Slide Block com
			plete, Nos. 229p, 1035c, 12424 and 1517
>>	€	2058 5046	Presser Bar
		17841 3718	" " Collar with two 196F
		196г 3718	" " Set Screw
		17842 3718	" Guide Bracket with 453c
•	•	453c 5007	" " Set Screw
		17843 5045	" " Lifting Lever
	į	17844 5049	" " " Bracket
(II)	@	164E 3724	" " " " Serew
	,	1201c 5021	" " " Hinge Screw
_		17845 5046	" " " Rod
	,	17846	" " " " Chain
N.	(2)	8414 5001	" " Spring
	1	17941 5049	Pulley (loose) 21/8 in. diam
바	F	17848 5049	" " Bushing
(2269 3722	" " Position Pin
	ı	1202D 3724	" " Cap Screw
		17942 5049	" (tight) 21/8 in. diam., with 2269
		2022 3722	" " Pin
i D	₩.	17955	Pulleys complete, Nos. 1202p, 1206c, 17848
	1		17854, 17941 and 17942
		2996 5017	Shuttle Bobbin
*	***	15140 5017	" Case Latch
•		2973 5017	" " " Lever
	1		

NO.	PLATE	NAME
2974	5017	Shuttle Bobbin Case Latch Lever Fulcrum
		Pin
2975	5017	Shuttle Bobbin Case Latch Spring
	5017	" " Stop Screw
15141		" " Hinge, Nos. 2973,
		2974 and 15140
55358		Shuttle Bobbin Case Position Finger
2523	5017	" " " Rivet
55359	8577	Shuttle Bobbin Case complete, Nos. 591F,
	,	592E, 2523, 2975, 15141, 55358 and
		55360
21562	5017	Shuttle Body
591г	5017	" Tension Regulating Screw
55360	8577	" " Spring
55361		Shuttle, 111 in. diam., Nos. 2996, 21562
		and 55359
*2542		Shuttle Driver
2441	5017	" 2542 with two 462c
2049	5017	" " Pin
462c	5017	" Set Screw
55362		" Race Body
21623	8577	" " Cap
662p		" " Screw
2523	5017	" " Steady Pin
55363	8577	rang
18413	8577	opring
	8577	Screw
55364	8577	Shuttle Race (flexible) complete, Nos.
		662D, 2523, 21623, 55362, 55363 and
4		two each 1289p and 18413
171 _D		Shuttle Race Screw
17853	5048	Starting Lever
1262c		" Hinge Screw
1662c		Nut
17886	5048	ricman
17854	3721	Stop Cam
17855	3721	" " Interlocking Rod
55387		" " " Case
18492	5049	" " " " 55387
		with 18443 and two 193D
55285		Stop Cam Interlocking Rod Case 18492
		with 1318b, 17855, 17863, 17864, 39222,
		39223 and two 1255p
39346	5049	Stop Cam Interlocking Rod Case Bracket

3 10	*** • ***	
NO. 55304	PLATE	NAME Stop Cam Interlocking Rod Case Bracket
00001		complete, Nos. 1182E, 1196c, 1204E,
		1254c, 1262c, 1508e, 1662c, 17853,
7		17859, 17861, 17862, 17872, 17873,
		39346, 55285 and two 898b
18493		Stop Cam Interlocking Rod Case Bracket
		55304 with 39343, 39344 and two 1186p
16532	3722	Stop Cam Interlocking Rod Case Bracket
		Dowel Pin
1343E	5021	Stop Cam Interlocking Rod Case Bracket
		Screw
1204E	3721	Stop Cam Interlocking Rod Case Hinge
	=0.40	Screw
17859	5048	Stop Cam Interlocking Rod Case Socket Joint
898p	3791	Stop Cam Interlocking Rod Case Socket
0300	3121	Joint Cap Screw
39343	5049	Stop Cam Interlocking Rod Case Spring
03010	3013	(flat)
430c	3759	Stop Cam Interlocking Rod Case Spring
		Adjusting Screw
1520e	3759	Stop Cam Interlocking Rod Case Spring
		Adjusting Screw Nut
39314	3759	Stop Cam Interlocking Rod Case Spring
		Bracket with 430c and 1520E
1186р	5021	Stop Cam Interlocking Rod Case Spring
		Bracket Screw
17861	3721	Stop Cam Interlocking Rod Case Stop
		Stud
1254c	5021	Stop Cam Interlocking Rod Case Stop
1508E	EO-21	Stud Screw Bushing
1909E	3021	Stop Cam Interlocking Rod Case Stop Stud Serew Bushing Lock Nut
17862	3721	<u> </u>
17302	3/21	Stop Cam Interlocking Rod Case Stop Stud Spring
18443	8581	Stop Cam Interlocking Rod Case Wearing
10110	0001	Block
193 _D	5587	Stop Cam Interlocking Rod Case Wearing
		Block Screw
17863	3721	Stop Cam Interlocking Rod Spring
17864	3721	" " Stop
1318ь		" " " Screw
3012	3722	" " Pin
1206c		" " Screw
2102	3722	Tension Disc
1560c	3722	" Regulating Thumb Nut

E)

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NO.	PLATE			NAM	(TE
600c	3722	Tension	Screw		
448c		46	"	w.	Set Screw
2103	3722	"	Spring		
2105	3722	44	Throng	l Cuo	rd
*55302	5122	Throad	Tolcom	n Car	n
18392	5045	"	rake-u	p Car	55302 with 446c
3012	3722	"	"	44	
446c		"	"	"	Pin
*18393	5049	66	"		er with 1822
55283		46	***	rev	
99289 79c		"	"	"	1999 Mich 19C
1822	5021	"	"	"	ninge Screw
		"	"		noner and stud
2124	3722	"	"	Spr	ing
2127	3722	"	"		negulator Flate
233р	3722				•
*****		Adjus	sting Sci	rew	
55365	8576	Thread	Wiper I		
1207р			"		Hinge Screw
17866	7229	"	"	"	Hook
17867	7229	"	"		Support
641c		"	"	"	" Set Screw
17868	7229	"	"	"	Wire
337p		"	66	"	" Screw
17869	7229	"	44	"	" " Washer.
55366		Throat:	Plate w	ith 55	322 and two 42639
55367	8578	"	" 55	5366	with 55326 and two
		1208p) <i></i>		
-55326	8578				Hole Bushing
1208D	8578	66	"	"	" " Screw
55368		Throat :	Plate co	mplet	te, Nos. 1698c, 17828,
					321, 55323 and 55367
$691_{\rm F}$	3724				
17872	3721				
1196c	3721				rew
17873	3721	"			
1182E	8576				rew
17874	7229	Tripping	Point		
190p		"			f
2000	5500			~01011	

LIST OF PARTS COMPLETE

FOR

MACHINE No. 69-21

FOR MAKING THE ARROW HEAD DESIGN AT THE UPPER END OF THE STEM OF CLOCKING ON HOSIERY. MAKES 36 STITCHES IN THE COMPLETE DESIGN.

71	طر	. NO. F	PLATE				JAME		
. `	,		8575	Arab	Clomp			796	
(6)	(A)		3575 3575	"	"	"			7866
	•	190p 8		"	٠ ، ،	"			
-	r		3575	"	"	"			
(A)	•		3581	"	"	"			
	•		5556	"	"	46			
			8581	"	"	46			
		217」		"	"	"			(lower)
®	1	1175, 8		"	"	"	"	"	(upper)
			5043	"	"	Fram	ie:		
			8581	"	"	"			
l\n. s	640 · (181p	5021	"	"	"			
(M)		55371 -		Arch	Clamp	com			l0s, 1175s.
									9, 39303
				553					two each
-64)									
	, (-	*18439 -							164E
	•	4389 8	8581	**	Dowel :	Pin			
	_	4448 3	3722						bearing
(%)	**	880E 3	3724	"	Screw.	.			
		17702 3	3728	"	Shaft	. 			
æ,	*	17703 5	5001	"	" В	ushin	g (back) <i>.</i>	
56 0	₩	50333c 8	8581	"	44	46	"	Ad	justing
				Scr	ew	. .			
+	۴	1520E 3	3724	Arm	Shaft	Bush	ning (b	ack)	Adjusting
LS.									
. 📟									
				Belt (
			5001	"					nd 17741.
*	· 🛶	184E 5		"	"	"			.
		_	3581	"	"	"			
		217р 5		"					
form."	h		5001						
	-(20)	• •	3581	"					
		1255p 5	5021	"	"	"	Screw		

(3)

10)

PARTS FOR MACHINE No. 69-21

18

(4)

		F#X.	". "		
NO. PLATI	NAME	•	-	NO. PLATE	NAME
4292 5045	Crank Connecting Rod with 4349 and			18362 5007	Feed Across Shaft. Crank (front) with
	two 158E				160E and 18363
*4349		®	پ	160E 5047	Feed Across Shaft Crank (front) Clamping
158E 3724	" " Screw	,			Screw
375c 3724	" " Hinge Screw			18363 5007	Feed Across Shaft Crank (front) Stud
1518E 3718	" " " Nut.			18364 5007	" " " " Slide
	2146.	9	•	10501 5001	Block
*18352	Cylinder			55372	Feed Cam with 17874 and two each 1900
18388 8581	DiOCK			55572 —	
1300р 8581	1361 CW			00011 5045	and 1192c
55347 5046	" End Cover	•	(💮	39211 5045	Feed Cam Driving Worm with 1441c and
	Face Plate	,			1442c
*63736	" " 17724 with 2105	*	,=	1442c 5021	Feed Cam Driving Worm Position Screw
17725 —	Face Plate complete, Nos. 448c, 600c,		4 0)	1441c 5021	" " Set Screw
	1560c, 2103, 2107, 2124, 2127, 63736	•	•	39212 5045	" " Wheel with
	and two each 233p and 2102	٦	6		453c
164p 3724	Face Plate Screw			3012 3722	Feed Cam Driving Worm Wheel Pin
2107 - 3722	" " Thread Guard	90	•	453c 5007	" " " Set Screw
233ъ 3722	" " " Serew			18384 5007	" " Pin
55376 5045	Feed Across Connection with 21358, 55377			1192c 3724	" " Set Screw
	and four 1057E	4-		18416 5046	" " Shaft
55379 ——	Feed Across Connection 55376 with 50598c	•		18417 5049	" " Bracket
35310	and 55382			1177р 5047	" " Screw (back)
*21358				1193р 3724	" " " (front)
1057E 5047	" " Serew			1653c 3724	" " Nut
*55377		, 🧶	*	55373 8575	" Plate
	(upper),			*18437 5046	" Carrier Bar
1057E 5047	KKICW			55374	" " " 18437 with 934J,
18356 5045	Regulation with 1992	,		00014	10401 WILL 2043,
50598c 5047	Aujusting Dan				1195E, 1221c, 18366, 18390, 18488, two
	Screw Stud			#0000 #00W	55300 and four 17806
1676c 5047	Feed Across Regulator Adjusting Ball			18366 5007	Feed Plate Carrier Bar Block
	Screw Stud Nut		4.	18367 5007	Cover
17738 5047	Feed Across Regulator Adjusting Ball			1221c 5007	" " " " Screw
	Screw Stud Nut Washer			55300 8576	" " " Steady Pin
18357 5047	Feed Across Regulator Hinge Stud	, 🦠	p#	17805 5007	" " " Pivot Block
690p 5047	" " " " Clamp-	•	·#	1194D 5007	" " " " " Screw
	ing Screw			18390 5007	" " " Plate
1952 5047	Feed Across Regulator Roller and Stud	*	۶	934л 5007	" " " Screw
18358 5046	" " Shaft			1654c 8576	" " Nut:
18359 5047	" " Collar with two 200F	4	1 📆 /	17806 8576	" " Position Stud
200r 5047	" " Set Screw			1195E 8576	" " Screw Stud
18421 5047	" " Crank (back) with 160E	•		39361 5048	" Regulator with 1953
TOTAL OUT	and 200c	/		18469 5048	" "Bracket with 690p, 39310
55382 5047	Feed Across Shaft Crank (back) Ball Stud	•	(* *****	20200 0010	and two 160p
200c 5047	" " " " " " " " "			55375	Feed Regulator Bracket 18469 with 18356,
2000 304 <i>t</i>				00010	18357, 39313 and 39361
180 5015	Set Screw	1 m.	محن	*39310 ——	Feed Regulator Bracket Cap
100E 5047	Feed Across Shaft Crank (back) Clamping				" " " Screw
	Screw			160n 5047	ocrew

NO. PL	,ATE		NAME			
		Regulator		Dowel 1	Pin	
1177E 50		"			<i></i>	
17744 50)47 "	"	Hinge St	tud		
18488 37	759 "	"	Post			
18489 37	759 "	"				
810л 37	759 "	"	"		Screw	
1953 50)21 "	"	Roller a	and Sci	rew Stud	
	wit	h 1655c a	nd 14017.			
1655c 50	021 Feed	Regulator	Roller an	d Screw	Stud Nut	
14017 50	047 "	"	"	"	"	
	Wa	sher				
39313 37	759 Feed	Regulator	Swivel			
1191р 50	047 "	* ""	Thumb 8	Screw		
55319 85	576 Knife	(needle t	hread)			
55320 88	576 "	(shuttle t	hread)			
18370 50	044 "	Bar with	18373 an	d two 1	7822	
55357 8	576 "	" Cap.				
219p 8	576 "	" "	Screw			
18372 50	016 "	" Com	nection w	ith 1791	7	
190p 5	556 "	"	" Se	crew		
7071 8	576 "	"	"	" W	sher	
17915 50	016 "	**	" S	lide Blo	ck	
17917	"	"	"	"	17915	
	wit	h 17916				
17916 50	016 Knife	Bar Con	nection S	lide Blo	ck Stud.	
	016 "	" Driv	ing Lever	with 19	0ъ, 1420е,	
	179	19 and 39	298			
1382г 5	016 Knife	Bar Driv	ing Leve	r Hinge	Screw	
1681c 5		16 66		"	" Nut	
	016 "		• • •	Lock 8	Stud	
	016 "	" "	"	"	" Spring	
190р 5	556 "	"		44	""	
	Sei	ew				
1420E 5	016 Knife	Bar Driv	ing Leve	r Lock	Stud Stop	
			_			
18373 8						
	576 "		Rivet.			
	048 "	Cam Lev	er Body			
39409 -	"	44, 41	"	39235 v	vith 39460	
39329 5	048 Knife	Cam Le	ver com	plete, N	los. 19793	
	an	d 39409				
18470 5					1177р	
8589 3	722 "	66 6			el Pin	
670E 5	021 "	46 4	44	Screv	w	
50029c 3	759 "	"	' Hinge	Screw.		
18471 3	759 "	44 6	"	44	Bushing	

NO. PLATE NAME *18472 --- Knife Cam Lever Hinge Screw Bushing 18471 with 50029c..... 1177D 5047 Knife Cam Lever Hinge Screw Bushing Clamping Screw..... 1980 3759 Knife Cam Lever Roller and Screw Stud with 1654c..... 1654c 8576 Knife Cam Lever Roller and Screw Stud Nut..... 39330 3759 Knife Cam Lever Slide with 1980...... " " " 39330 with 1255D 39460 ---and 39331..... Knife Cam Lever Slide Screw..... 1255p 5021 " " " Washer.... 39331 3759 " " Steady Pin 19793 8576 17825 8576 " Holder with 17826, 17830 and two 7298..... 55323 --- Knife Holder 17825 with 1198c, 17829. 55319 and 55320..... Knife Holder Pinion.... 17826 8576 7298 8576 " Stud..... 17827 8576 " " Bracket with 17828 8576 17827..... Knife Holder Pinion Stud Bracket Screw 50018_F 5021 1698c 5021 Nut..... Knife Screw..... 1198c 8576 55321 8576 (stationary)..... *55322 8576 " Pin..... 42639 8576 50117_J 8576 Thread Holder..... 17829 8576 " Position Pin..... 17830 8576 17831 5046 Needle Bar with 237F..... " Connecting Link..... *39203 3718 " " 39203 with 63756 ----21629..... (ΰ,. 377c 3718 Needle Bar Connecting Link Hinge Screw 1518E 3718 Nut..... Needle Bar Connecting Stud with 155c... 21629 3718 " " Set Screw... 155c 3718 " " Thread Nipper Driving Lever 39350 5045 (adjustable) with 39351 and two 335D 39351 3759 Needle Bar Thread Nipper Driving Lever Extension....

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			· 100		(*)		
	PLATE		\$		•	NO. PLATI	NAME
335D	3759	Needle Bar Thread Nipper Driving Lever					Oscillating Shaft Crank Slide Block Serew
		Extension Screw				10101 0011	Stud Must
1196c	3721	Needle Bar Thread Nipper Driving Lever	e 😓 ,		•	15171 5017	Stud Nut.
		Hinge Screw	-		A sec.	15171 5017	
39352	5045	Needle Bar Thread Nipper Driving Lever		1			plete, Nos. 229p, 1035c, 12424 and 15170
-550	0010	Spring		1		2058 5046	Presser Bar
17834	2710	Spring	*		•	17841 3718	" Collar with two 196r
11001	0110	Needle Bar Thread Nipper Lever with		- !	_	196г 3718	" " " Set Screw
15095	9710	17835		- 1		17842 3718	" Guide Bracket with 453c
	3718	Needle Bar Thread Nipper Lever Bushing				453c 5007	" " Set Screw
1200p	3718	" " " Hinge	a		<u> </u>	17843 5045	" " Lifting Lever
		Screw			W	17844 5049	
39276	8576	Needle Bar Thread Nipper Lever Spring	μ			164E 3724	Dracket
1329_{D}	8576	" " " " " "					Screw.
10202	00.0		()		(4)	1201c 5021	ninge Screw
		Screw			-	17845 5046	" " Rod
	5045	Needle Bar Thread Nipper Rod	per.		> .	17846 ——	" " " Chain
17838	3718	" " " Adjust-				8414 5001	" " Spring
		ing Stud	>		3	17941 5049	Pulley (loose) 27% in. diam
1651E	5021	Needle Bar Thread Nipper Rod Adjusting				17848 5049	" "Bushing
		Stud Lock Nut				2269 3722	" " Position Pin
17839	3718	Needle Bar Thread Nipper Rod Arm with				1202D 3724	" d Can Screw
	0.10	106m	(A)		Ø₽.	17942 5049	. Cap berew
106-	9710	196F					(ugnt) 2/8 m. diam., with 2209
1901	0110	Needle Bar Thread Nipper Rod Arm Set				2022 3722	# ##
##O 10		Screw				17955 ——	Pulleys complete, Nos. 1202D, 1206C, 17848,
17840	5001	Needle Bar Thread Nipper Rod Support	€S.		(4)		17854, 17941 and 17942
190в.	5556				5-4.	2996 5017	Shuttle Bobbin
		Screw				15140 5017	" Case Latch
237г :	3724	Needle Set Screw				2973 5017	" " Lever
*6022	5001	Oscillating Rock Shaft (steel) with 4784	₩		~	2974 5017	" " " Fulerum
		Oscillating Dook Chaft 14 37	•		4		Pin
00210		Oscillating Rock Shaft complete, Nos.				2975 5017	Shuttle Dobbin Cose I at a Co.
		1513 _J , 6022 and 6489				592E 5017	Shuttle Bobbin Case Latch Spring
6489	5001	Oscillating Rock Shaft Hinge Pin	<i>₽</i>		(3)		Stop Screw.
1513л 3	3724	" " " " Nut				15141	ninge, Nos. 2973,
4784 8	3576	" " " Oil Pad					2974 and 15140
18385 5	5046	" Shaft	91		~	15027 - 5017	Shuttle Bobbin Case Position Finger
18386 -		" " Crank	(ii)		13.	2523 5017	" " " " Rivet
	017	Oscillating Shaft Crank complete, Nos.				15277 5017	Shuttle Bobbin Case complete, Nos. 591F,
10001		227 1510 15171 - 1 10002	¢.		>		592E, 2523, 2975, 15027, 15141 and
		237F, 1519E, 15171 and 18386					15278
	017	Oscillating Shaft Crank Pin	· • • • • • • • • • • • • • • • • • • •			21562 5017	Shuttle Body
237г 5	017	" " Set Screw				591r 5017	" Tension Regulating Saray
15170 - 5	017	" " Slide Block					Tombion regulating Defen
229 d 5	017	" " " " Can				15278 5017	Djring,,
		Screw	Ý	4	₩ i	21561 - 5017	Shuttle, $1\frac{11}{16}$ in. diam., Nos. 2996, 15277
12424 5	017	Oscillating Shaft Crank Slide Block Cap	•				and 21562
		Screw Washer				*2542	Shuttle Driver
1035c 5	017 4	Oscillating Shoft County Stide Die 1 G			in.	2441 - 5017	" 2542 with two 462c
10000 0	O11 1	Oscillating Shaft Crank Slide Block Screw	87		. 10	2049 5017	" " Pin
		Stud				462c 5017	" Set Screw

NO. PLATE	
55362 ——	Shuttle Race Body
21623 8577	" " Cap
662D 8577	" " Screw
2523 5017	" " Steady Pin
55363 8577	" " Ring
18413 8577	" " "Spring
1289р 8577	" " " Screw
55364 8577	Shuttle Race (flexible) complete, Nos.
	662D, 2523, 21623, 55362, 55363 and
	two each 1289p and 18413
171р 8577	Shuttle Race Screw
17853 5048	Starting Lever
1262c 5021	", " Hinge Screw
1662c 5021	. Nut
17886 5048	" " Pitman
17854 3721	Stop Cam
17855 3721	" "Interlocking Rod
55387	" " " Case
18492 5049	" " " " 55387
	with 18443 and two 193p
55285	Stop Cam Interlocking Rod Case 18492
	with 1318p, 17855, 17863, 17864, 39222,
	39223 and two 1255p
39346 5049	Stop Cam Interlocking Rod Case Bracket
55304	Stop Cam Interlocking Rod Case Bracket
	complete, Nos. 1182E, 1196c, 1204E,
	1254c, 1262c, 1508E, 1662c, 17853.
	1254c, 1262c, 1508E, 1662c, 17853, 17859, 17861, 17862, 17872, 17873,
	39346, 55285 and two 898p
18493	Stop Cam Interlocking Rod Case Bracket
	55304 with 39343, 39344 and two 1186D
16532 3722	Stop Cam Interlocking Rod Case Bracket
	Dowel Pin
1343E 5021	Stop Cam Interlocking Rod Case Bracket
	Screw
1204E 3721	Stop Cam Interlocking Rod Case Hinge
	Screw
17859 5048	Stop Cam Interlocking Rod Case Socket
	Joint
898p 3721	Stop Cam Interlocking Rod Case Socket
	Joint Cap Screw
39343 5049	Stop Cam Interlocking Rod Case Spring
	(flat)
430c 3759	Stop Cam Interlocking Rod Case Spring
	Adjusting Screw
1520E 3759	Stop Cam Interlocking Rod Case Spring
	Adjusting Screw Nut
	•

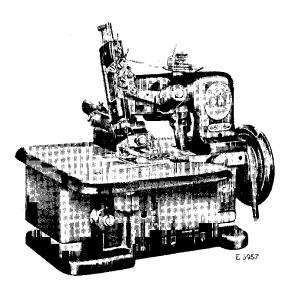
NO.	PLATE	NAME
39344	3759	Stop Cam Interlocking Rod Case Spring
00011	0.00	Bracket with 430c and 1520E
1186p	5021	Stop Cam Interlocking Rod Case Spring
11002	0021	Bracket Screw
17861	3721	Stop Cam Interlocking Rod Case Stop
11001	0.2.	Stud
1254c	5021	Stop Cam Interlocking Rod Case Stop
12010	0021	Stud Screw Bushing
1508E	5021	Stop Cam Interlocking Rod Case Stop
100017	0021	Stud Screw Bushing Lock Nut
17862	3721	Stop Cam Interlocking Rod Case Stop
11002	0121	Stud Spring
18443	5581	Stop Cam Interlocking Rod Case Wearing
10110	0001	Block
102n	5587	Stop Cam Interlocking Rod Case Wearing
1990	0001	Block Screw
17863	3721	Stop Cam Interlocking Rod Spring
17864	3721	" " Stop
1318p		" " Screw
3012	3722	" " Pin
1206c		" " Screw
2102	3722	Tension Disc.
1560c		" Regulating Thumb Nut
	3722	" Screw Stud
	3722	" " Set Screw
2103	3722	" Spring
2105	3722	" Thread Guard
*55302	3122	Thread Take-up Cam
18392	5045	" " 55302 with 446c
3012	3722	" " Pin
	3724	" " Set Screw
*18393	5049	" Lever with 1822
55283	5049	" " 18393 with 79c
50265 79c	•	" " Hinge Screw
1822	5021	" " Roller and Stud
2124	3722	" Spring
2124	3722	" " Regulator Plate
	3722	iteguator i ia te
2000	3122	Adjusting Screw
17865	7229	Thread Wiper Body
1207p	7229	" " Hinge Screw
17866	7229	" " Hook
17867	7229	" " Support
	5021	" " Set Screw
17868	7229	" " Wire
	3718	" " Screw
337D 17869	7229	" " Washer
11009	1 440	wasner

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9831-

NO.	PLATE	NAME
55366		Throat Plate with 55322 and two 42639
55367	8578	" 55366 with 55326 and two
		1208p
55326	8578	Throat Plate Needle Hole Bushing
1208 _D	8578	" " " Screw
55368		Throat Plate complete, Nos. 1698c, 17828,
		50018F, 50117J, 55321, 55323 and 55367
691 _F	3724	Throat Plate Screw
17872	3721	Trip Lever
1196c	3721	" " Hinge Screw
17873	3721	" " Spring
1182E	8576	" " Screw
17874	7229	Tripping Point
190n	5556	" " Screw

LIST OF PARTS COMPLETE FOR



MACHINE No. 81-16

FOR MAKING THE STEM OF THE CLOCKING ON HEAVY WOOLEN OR FINE SILK HOSIERY WITH LADDER OR IMITATION HAND STITCH WHERE MATERIAL IS REVERSED, OR WITH ORNAMENTAL OVEREDGE STITCH IF SEWED ON THE OUTSIDE. A LARGE VARIETY OF ATTRACTIVE EFFECTS MAY BE OBTAINED BY USING DIFFERENT COLORED THREAD IN THE NEEDLE AND LOOPER AND BY ADJUSTING THE TENSIONS. NO TRIMMER. TWO THREAD STITCH. FOOT LIFTER.

NO.	PLATE	NAME
*42251		Arm with two each 462c and 42253
4389	8581	" Dowel Pin
949E	5587	" Screw
42001	5576	Balance Wheel, $2\frac{3}{16}$ in. pulley, with 424c
		and 1354c

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NO.	PLATE	NAME .
NO. 1354c		NAME Balance Wheel Position Screw
424c		" " Set Screw
42002	5526	
42107	0020	Cloth Plate
42107		Cloth Plate complete, Nos. 42002, 42003,
		42005, 42108, two 236p and five 229E
42003	5526	Cloth Plate Extension (lower)
$229_{\rm E}$	5587	" " Screw
42108	5526	" " (upper)
$229_{\rm E}$		" " " Screw
1437d	5587	" " Hinge Screw
1655E	5587	" " " Nut
42005	5526	" " Lock Spring
236d	5587	" " " Screw
42205	5588	Feed Bar with 1253c
42007	5529	" " Hinge Pin
1253c	5529	" " " Set Screw
42008	5529	" Connecting Rod with 42009 and two
		1057E
*42009		Feed Connecting Rod Cap
1057E	5529	" " Screw
1373c		" " Hinge Screw
1520c		" " " Nut.
42422	7395	" Dog
190p		" " Screw
42011	5529	" Eccentric with two 453c
42094	5526	" Cover
42102	7394	" " " Holder
283p		" " Thumb
2000	1001	Screw
0710	#90.4	
2749	7394	Feed Eccentric Cover Holder Thumb
		Screw Washer
207f		Feed Eccentric Cover Screw
453c		" Set Screw
42012	5529	" Lifting Eccentric with two 462c
42013	5529	" " Connection
462c		" " Set Screw
1374c	5530	" Regulating Screw Stud
1680c	5530	" " " Nut
42290	5530	" " Washer
42014	5530	" Regulator with 233D and two 1259c.
42015	5529	" Connection with 1012E
1012E	5529	" " Adjusting
		Screw
1373c	5529	Feed Regulator Connection Hinge Screw
1520c		" " " " " "
10200	<i>0020</i>	Nut
*		11 Can

		PARTS	S FOR MACHINE No. 81-16
37	(3 *		
•		NO. PLATE	NAME
		42016 5530 Feed	Regulator Hinge Stud
		42017 5529 "	" Indicator
9 ,	_(D)	42018 5530 "	" " Plate
	·-	337р 5530 "	" " Screw
		207г 5529 "	" Screw
-		1259c 5530 "	" Set Screw
(3)	Ψv	233р 5530 "	" Stop Screw
	!	42019 5530 "	Rock Shaft
		42020 — Feed	Rock Shaft complete, Nos. 4201
(2)	ni.		d 42021
₹.#	, American	42021 5530 Feed	Rock Shaft Crank with 157E
4,	من	157E 5530 "	" " Clamping Screw
		42098 5530 "	" " Hinge Pin
9	*	42079 5530 "	" " " Bushing
		1036c 5530 "	" " " " Se
•	7	Sc	erew
•	∕ @•	*42022 Fran	ne
-		42023 5576 "	Rotary Shaft
	i	42024 5576 "	" " Bushing (front)
	l	1036c 5530 "	" " " Se
€	,	Sc	erew
		42025 5553 Fran	ne Rotary Shaft Crank with 1259
		ar	nd 1375c
	_	1375c 5553 Fran	ne Rotary Shaft Crank Position Screw
•	, Land	1259c 5553 "	" " Set Screw
		42026 5576 "	" "Flanged Bushin
			eack)
4	-	54967 7394 Frai	ne Rotary Shaft Flanged Bushin
·	-		oack) Oil Pad (braided cotton)
		1036c 5553 Frai	ne Rotary Shaft Flanged Bushin
_		(b	ack) Set Screw
. 0	***	42367 7394 Fra	ne Rotary Shaft Front Bearing O
		P	ad (braided cotton)
•	•		me Side Cover (left) with 19045
On I	(D)	19045 7394 "	" " " Handle
· · ·	145	330р 5587 "	" " Screw
	,	42028 5526 "	" " (right) hinged
	·	42192 7394 "	Lock opting
()	₩ .	330р 5587 "	DOLO
		330p 5587 "	DOLOWITTINI
		42029 5576 "	Top Cover
40	نھ	742F 5587 "	" " Screw
~	_		de
		217г 5556 "	DUIGHT
		7071 8576 "	" Washer
Ć.	23	42050 5553 Loo	per (left hand)
		42051 5553 "	" " Lever with 209н

00	-	THE POIL MACHINE NO. 81-10		_	P	ARIS FOR MACHINE No. 81-16
NO.	PLATE		(3)	(3):		
42052	5553	11111111	•		NO. PLATE	
50562c		Looper (left hand) Lever Connecting Link			42061 5544	Needle Bar Connecting Bracket with 1870
50002C	1094		/	-		and 223F
	2222	Hinge Screw	(%	₩	187D 5544	Needle Bar Connecting Bracket Clamping
1520c	5553	Looper (left hand) Lever Connecting Link				Screw
100-0		Hinge Screw Nut			42055 5544	Needle Bar Connecting Link
42053	5553	Looper (left hand) Lever Hinge Stud	(3)	₩.	40247 5544	" " " Hinge Pin
1036c	5553	" " " " " Set			223г 5544	" " " " " Set
		Screw				Screw for 42061
209н	5553	Looper (left hand) Set Screw			0040 5544	Needle Bar Connecting Link Hinge Pin
42166	5553	" (right hand)	.5>	19	\$01C 3311	Set Screw for 42104
42073	5553	" " and Spreader Lever			49057 5544	Needle Bar Connecting Rod with 42059,
		with 1259c	*	444	14001 0011	42076 and four 896E
42074	5553	Looper (right hand) and Spreader Lever	44		*42076	Needle Bar Connecting Rod Cap (lower)
		Ball Stud		*	896E 7394	" " " " " " " " "
1259c	5553	Looper (right hand) and Spreader Lever	-	<u>ب</u>	O90E 1994	
		Ball Stud Set Screw			******	Screw
42075	5553	Looper (right hand) and Spreader Lever		(4)	*42059 —	Needle Bar Connecting Rod Cap (upper)
		Connection with 42059, 42076 and four			896e 7394	
		896е		ļ		Screw
*42076		Looper (right hand) and Spreader Lever			42077 7394	Needle Bar Connecting Rod Guide
		Connection Cap (lower)	•	-	171 _F 5544	" " " " Serew
896E	7394	Looper (right hand) and Spreader Lever		ľ	42103 5544	Needle Bar Crank (back) with 1258c and
		Connection Cap (lower) Screw		ľ		two 1259c
*42059		Looper (right hand) and Spreader Lever		(3)	42074 5553	Needle Bar Crank (back) Ball Stud
		Connection Cap (upper)			1259c 5553	" " " Set
896E	7394	Looper (right hand) and Spreader Lever				Screw
		Connection Cap (upper) Screw			1259c 5553	Needle Bar Crank (back) Position Screw.
42077	7394	Looper (right hand) and Spreader Lever	. 1	* ;	1258c 5544	" " " Set Screw
		Connection Guide	*	,	42104 5544	" " (front) with 904c,
171F	5544	Looper (right hand) and Spreader Lever				1258c and 1259c
		Connection Guide Screw		-24.	1259c 5553	Needle Bar Crank (front) Position Screw.
42106	7394	Looper (right hand) and Spreader Lever	۵	,,	1258c 5544	. " " " Set Screw
		Connection Oil Tube and Bracket with			42105 5544	" " " Shaft
		29599	•	, s	42115 5544	" "Thread Retainer Bracket
29599	7304	Looper (right hand) and Spreader Lever	٩	3	10106 5544	" " " Disc
20000	1001	Connection Oil Tube Deskins (Call)	ν-		93c 5544	" " " Screw
42078	7304	Connection Oil Tube Packing (felt)	5	÷	10107 5544	" " " Spring
12010	1001	Looper (right hand) and Spreader Lever			1728c 7394	" Clamping Nut
42079	5520	Hinge Pin.	199		42066 5544	" Guard
12010	0000	Looper (right hand) and Spreader Lever		1	42195 5588	" " Holder
1250a	5520	Hinge Pin Bushing		ŀ	1101c 5587	" " Screw
#200C /	JU0U	Looper (right hand) and Spreader Lever	((4 0)	171г 5544	" " Screw
107.		Hinge Pin Bushing Set Screw			2532 7394	Presser Foot Hinge Pin
197в Ј	0553	Looper (right hand) Screw			42424	" " Plate
	5544	Needle Bar			42425 ——	" " Shank
	5544	" " Bushing	(A	20:	42426 7395	Presser Foot (hinged) complete, Nos. 2532,
462c	0544	" " Set Screw				42424 and 42425

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	ľ	ARTS FOR MACHINE No. 81-16			PARTS FOR MACHINE No. 81-16
NO.	PLATE	NAME	<i>.</i> *)	6)	
1324c			•	(3 9	NO. PLATE NAME 42432 7395 Throat Plate Chaining-off Finger for put
	5545	" " Washer			pu
	5545	" Lever	63	sh:	stitch
42045		" " Hinge Stud	%),	(A)	501690 7395 Throat Plate Chaining-off Finger Screw.
1120c		" " Set Serew			42433 — Throat Plate complete for 42422, No.
42070		" " Lifter			42430, 42431 and two 50169p
	5545	" " Hinge Screw	(A	AL.	742r 5587 Throat Plate Screw
1377c		" Screw Stud (eccentric)			
1547D		" " Nut			
42071		" " Spring			IRON BASE
1378D		Pressure Regulating Thumb Screw	67	(4)	INON DAGE
	7395	Spreader			FOR 81-16 MACHINE
197D			*,	٠,5	NO. PLATE NAME
		serew	6 5	- ***	42086 5564 Machine Base with three wood screw
2102		Tension (looper, left hand) Disc	9,7	W	
1560c	9990	Regulating	7		$1\frac{1}{4}$ in. No. 12 and four each 935p, 471
200		Thumb Nut		•	and 42088
828c		Tension (looper, left hand) Screw Stud	110	(A)	4718 5586 Machine Base Cushion (felt)
42121		opring			t2000 5000 Cusinon (left)
2102		(booper, right hand) Disc			935p 5586 " " Screw
1560c	5556	" " Regulating			
		Thumb Nut	*)	(@)	***************************************
828c -		Tension (looper, right hand) Screw Stud.			ACCESSORIES
	5556	" " " Spring			FOR 81-16 MACHINE
	5556	" " " Thread Guide	.ev	- k	FUR OI-10 MAURINE
2102		" (needle thread) Disc	40	(10)	NO. PLATE NAME
1560c	5556	" " Regulating		-	1407E 5563 Machine Base Thumb Screw, for 3 in. tabl
		Thumb Nut			1408E 5563 " " " " 2 in. tabl
916c	5556	Tension (needle thread) Screw Stud	(10)	40)	14063 5586 " " " Spring
8238	5556	" " " Spring	, res	~ 1	9842 5586 " " " " " Washe
	5556	" " Thread Guide			120344 5566 Oiler (copper plated) with 120345
42242	7394	Thread (looper, left hand) Eyelet			120345 5566 " Spout, 5 in. long
233р.	5553	" " " Screw	(5)	(A)	26151 5566 Screw Driver
42084	5556	" " " Tube			42090 5566 Threading Wire
462c	5556	" " " Set Screw	ь		120341 5566 Tweezers (curved)
42126	7394	" (looper, right hand) Pull-off			42089 5566 Wrench for 1324, 1374 and 1728
42093	5556	" " " Staple	ற	3 99	8908 5566 " " 1520 and 1655
190р 3	5556	" " " " Screw			4822 5566 " " 1547
42127	5556	" " " Take-up	•	÷	
197г 3	5556	" " " Screw	-400	₩.	
	7395	" (needle) Eyelet (double)	>7		ATTACHMENTS AND ACCESSORIES
217 _F 3		" " " Screw			ALLACIMENTO AND ACCESSONIE
7071 8		" " " " " "			FOR 69-20 AND 69-21 MACHINES
	0010	Washer	(g) _j	*	
42429 7	7395	Thread (needle) Controller			NO. PLATE NAME
		" " Screw			18419 — Cylinder Base Plate with two 453c
		Throat Plate			10420 0000 Hinge Connection.
206p 7			(LT)	ر الله	18423 8580 " " " " Hing
206p 42430			\ -		
206d 42430	7395 7395	" " Chaining-off Finger			Pin
206d 12430					
206p 42430			. aret	8	

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34 ATTACHMENTS AND ACCESSORIES	sen.		BOBBIN WINDER	35
	9	ി		
NO. PLATE NAME	₹.	(ask	NO. PLATE NAME	
453c 5007 Cylinder Base Plate Hinge Connection			60770 8579 Tension Bracket complete, Nos. 419E,	
Hinge Pin Set Screw	-		1562J, 8422, 9780, 43808, 60769 and	
18424 5044 Cylinder Base Plate (hinged) complete,	O,	, D	two 2455	
Nos. 18419, two each 18420, 18423,	•		9780 8580 Tension Bracket Position Stud	
three wood screws 11/4 in. No. 12 and			, , , , , , , , , , , , , , , , , , , ,	
four 134D	Ó	-	101D 0124 Sciew	
134b 8580 Cylinder Base Plate Screw		(3)	200 6560 Disc	
41400 5023 Machine Rest Pin (wood)			10023 6560 Regulating Thumb Nut	
120346 4079 Oiler (copper plated) with 120347			TIBE 0000 Briew Blud	
120347 4079 " Spout, 9 in. long	Ú		2000 000 ching	
11831 5023 Screw Driver (large)		7	Threat Guide	
26026 5023 " " (machine)	٠,	and .	41604 8579 Bobbin Winder, Nos. 35D, 1620J, 27321,	
26485 5023 " " (shuttle tension)	430.		27328, 27538, 41598, 41600, 41825 and	
10875 5023 Wrench for 1518 and 1520	D ,	∌	50356p	
27662 5023 " " 1508	•:	•	41716 — Bobbin Winder (swinging automatic, left	
17905 5023 " " 1654 and 1676		j.	hand) complete, Nos. 161p, 41604,	
22003 5023 " " 1651	6.3	34	60770 and two 1186c	
22003 3023 1031		Apr.		
·	c		FOOT LIFTED DADTS	
BOBBIN WINDER	,	9	FOOT LIFTER PARTS	
(SWINGING AUTOMATIC, LEFT HAND)			FOR 81-16 MACHINE	
FOR 69-20 AND 69-21 MACHINES	r.ta.		NO. PLATE NAME	
100 00-20 RND 03-21 MAGNIMEN	45	⊙	6439 — Chain, 36 in. to 45 in., with 56864 and	
NO. PLATE NAME			56865	
41598 8579. Base with 27916 and two 28084				
1186c 5021 " Screw	Ø		Note: When ordering No. 6439 give length required.	
15072 8576 Bobbin Position Pin	7-	₹	4879 5566 Chain Connecting Link	
41715 5023 Bracket			56864 5566 " Hook (large)	
129E 8580 " Screw			56865 7229 " (small)	
27916 5016 Brake (leather)	, D	r e	42130 5586 Lifting Lever	
28084 5016 " Rivet		.		
27321 8579 Frame			12101 0000 Diacket	
50356D 8580 " Hinge Screw	(~	* .	1229C 5060 Screw	
1620j 8580 " " Nut	9	()		
41825 8580 " Spring			42102 0000 Spring	
41600 8579 Pulley with 155c	~		11±0# 0000 Btop Btrew	
155c 8580 " Set Screw	•		1941D 9949 Nut	
*27849 —— Spindle	, T	(4)	4881 5564 Treadle	
27538 8579 " 27849 with 15072, 27850 and			4882 5566 " Shaft	1
41828			4883 5566 " Spring	
	()	30.	4884 5564 " Stand	
*27850 — Spindle Collar		77	4885 5564 Treadle complete, Nos. 4879, 4881 to	
41020 0000 I.M			4884 and two wood screws 1 in. No. 16	
27328 8579 Stop Latch	4-		42133 — Foot Lifter complete, Nos. 1301n, 4885,	
35p 3724 " " Hinge Screw	6	, 39	6439, 42130 to 42132 and two each	
60769 8579 Tension Bracket		**	1148F, 1229c and 1547D	
·				
	7.5		•	
	بو.) .		

KNEE LIFTER PARTS

FOR 81-16 MACHINE

	•••••
NO: PLATE	NAME
42130 5586	Lifting Lever
42131 5586	" " Bracket
1229c 5586	" " " Screw
42142 5564	" Connecting Rod
1301р 5586	" " Hinge Screw
42132 5586	" " Spring
1148г 5586	" " Stop Screw
1547р 5545	" " " Nut
2763 5564	Rock Shaft
12242 5564	" " Hanger with two wood screws
	1 in. No. 10
2765 5564	Rock Shaft Knee Arm
2766 5564	" " " Hub with 356c
356c 5587	" " " Set Screw
2768	Rock Shaft Knee Arm complete, Nos.
	2765 to 2767
2767 5564	Rock Shaft Knee Plate with 356c
356c 5587	" " " Set Screw
6337 5564	" " Lifting Bracket with two 356c
7125 5564	" " " " Hook
356c 5587	" " " Set Screw
356c 5587	" " " Set Screw
2770 5564	" " Stop Dog with 356c
356c 5587	" " Set Screw
42143 5564	Rock Shaft complete, Nos. 2763, 2768
	6337, 7125 and two each 2770 and 12242
42144	Knee Lifter complete, Nos. 1301p, 42130
	to 42132, 42142, 42143 and two each
	1148r, 1229c and 1547p

PROTECTOR

FOR 69-20 AND 69-21 MACHINES

NO. PLAT	E NAME
39489 7008	Arm with 39490
160c 7009	" Clamping Screw
39490	Blade
39491 7008	Bracket with two each 426c and 448c
426c 7009	" Adjusting Screw
50351p 7009	" Screw
39492 7009	Crank with 160c
39493 7009	" Bracket with 1120c and two 454c

278	(3)	
*	,#*	NO. PLATE NAME
		454c 7009 Crank Bracket Set Screw
		52598 7009 " Hinge Stud
.	, 1 6	1120c 7009 " " Set Screw
		39494 7008 Rod
		15261 7009 " Collar with 237F
4	ri b	237F 7009 " " Set Screw
~	الون: ۱	39495 7009 " Connection
		176p 7009 " " Screw
		1099F 7009 " Screw Stud
•	•	39496 7008 " Sleeve
_	-	448c 7009 " " Set Screw
4.	n, Park	39497 7009 " Spring
e		15261 7009 " " Collar with 237r
	3 0	237F 7009 " " Set Screw
•		63753 — Protector (front of needle) Nos. 1099r,
·		39489, 39491 to 39494, 39496, 39497,
V	- (3)	52598 and two 15261
		39498 — Protector (front of needle) complete, Nos.
		39495, 63753 and two each 176p and
-		50351p
₩	*	00002

STAND FOR ELECTRIC MOTOR

FOR 69-20 AND 69-21 MACHINES

NO.	PLATE			NAME	
25490		Belt, s	ize ¼ in	., length	36 in., with 25127
25127	7229	" I	łook		
46667	7219	Brace.			· • · · · · · · · · · · · · · · · · · ·
748E	8580	"	Screw		
46522	7219	Leg			
4881	7219	Motor	Treadle		
46614	7219	<i></i>			(left)
1177E	5047	44	66	46	" Screw
46615	7219	"	"	"	(right)
1177E	5047	"	"	"	" Screw
4879	5023	"	46	Chain C	Connecting Link
4882	5023	u	"	Shaft	
4883	5023	"	"	Spring.	
46616	7219	Motor	Treadle		te, Nos. 4879, 4881
					16615
4881	7219	Startin	g Tread	le	
46614	7219	44	"		et (left)
1177E	5047	"	"	"	" Screw
46615	7219	**	"	"	(right)
1177E	5047	44	"	· · ·	" Screw

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THREAD UNWINDERS

NO.	PLATE	NAME
200383c	7229	Spool Rest Rod Set Screw
201018c	7229	" Set Screw
202490	7165	" Stand with 200383c
60913	7165	" Weight with 60914
60914	7229	" Centre Pin
225391	7165	Thread Guide
201696л	7229	" Lock Nut
225392	7165	" Rod with 208E and 225393
208E	5587	" " Screw
225393	7229	" " Washer
225397	7165	Thread Unwinder complete, Nos. 2016961,
		202490, 225388, 225389, 225392, 225395,
		three each 60913, 225391 and three
		wood screws 1/8 in. No. 13
27739	7234	Thread Cone (wood) for large cones
225390	7234	" " Holder, for inverted cones
2	OTE:	Nos. 27739 and 225390 are used with,
		but not included in, 225397.

OBSOLETE PARTS

FOR 69-20 AND 69-21 MACHINES

NO. 18353	PLATE 5045				on with 183	
*18354		Feed	Across	Connection	n Cap	
175E	5021	"	- 44	"	" Screw	7
18355	8580	"	"	Knuckle J	oint	
1184c	8581	"	"	46	" Hinge	Screw.
1187E	8580	"	44	Regulator	Adjusting	Stud
17739	8580	"	"	"	"	"
		Sle	eve			
18422	5047	Feed	Across	Shaft Crar	k (back) Ba	ll Stud

NUMERICAL LIST OF PARTS

NO. PLATE	NAME
35р 3724	Bobbin Winder Stop Latch Hinge Screw
	for 41604
79c 5021	Thread Take-up Lever Hinge Screw for 55283
85D 5545	Presser Lever Lifter Hinge Screw for 81-16 Machine
93c 5544	Needle Bar Thread Retainer Screw for 81-16 Machine
129E 8580	Bobbin Winder Bracket Screw for 41716
134D 8580	Cylinder Base Plate Screw for 18424
153E 3724	Table Belt Guide Pulley Shaft Set Screw for 17892
155c 8580	Bobbin Winder Pulley Set Screw for 41600
155c 3718	Needle Bar Connecting Stud Set Screw for 21629
157E 5530	Feed Rock Shaft Crank Clamping Screw for 42021
158E 3724	Crank Connecting Rod Cap Screw for 4292
160E 5047	Feed Across Shaft Crank (back) Clamping Screw for 18421
160E 5047	Feed Across Shaft Crank (front) Clamping Serew for 18362
, 160p 5047	Feed Regulator Bracket Cap Screw for 18469 and 55353
160c 7009	Protector Arm Clamping Screw for 39492
161в 3724	Bobbin Winder Tension Bracket Screw for 41716
161р 3724	Treadle Pitman Rod Clamp Screw for 17879
164р 3724	Face Plate Screw for 69-20 and 69-21 Machines
164E 3724	Presser Bar Lifting Lever Bracket Screw for 18439.
168E 5021	Table Belt Guide Belt Guide Set Screw for 39218
171F 5544	Looper (right hand) and Spreader Lever Connection Guide Screw for 81-16 Machine
171 _F 5544	Needle Bar Connecting Rod Guide Screw for 81-16 Machine
171 _F 5544	Needle Guard Screw for 81-16 Machine
171b 8577	Shuttle Race Screw for 69-20 and 69-21 Machines
	Machines

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NO.	PLATE	NAME
175E	5021	Feed Across Connection Cap Screw for
		18353, obsolete
	7009	Protector Rod Connection Screw for 39498
181b	5021	Arch Clamp Frame Screw for 55345 and 55371
184E		Belt Cover Bracket Screw Stud for 39290
187 _D	5544	Needle Bar Connecting Bracket Clamping Serew for 42061
190ъ	5556	Arch Clamp Foot Lifter Screw for 69-20 and 69-21 Machines
190d	5556	Feed Dog Screw for 81-16 Machine
190d	5556	Knife Bar Connection Screw for 69-20 and 69-21 Machines
190d	5556	Knife Bar Driving Lever Lock Stud Spring Screw for 39297
190p	5556	Needle Bar Thread Nipper Rod Support Screw for 69-20 and 69-21 Machines.
190р	5556	Thread (looper, right hand) Staple Screw for 81-16 Machine
190D	5556	Tripping Point Screw for 18410 and 55372
193 _D	5587	Stop Cam Interlocking Rod Case Wearing
		Block Screw for 18492
196г	3718	Needle Bar Thread Nipper Rod Arm Set Screw for 17839
196г		Presser Bar Collar Set Screw for 17841
197 _D	5553	Looper (right hand) Screw for 81-16 Machine
197D	5556	Spreader Screw for 81-16 Machine
197 _F	5556	Thread (looper, right hand) Take-up Screw for 81-16 Machine
200f	5047	Feed Across Shaft Collar Set Screw for 18359
200 c	5047	Feed Across Shaft Crank (back) Ball Stud Set Screw for 18421
206d	7394	Thread (needle) Controller Serew for 81-16 Machine
207г	5529	Feed Eccentric Cover Screw for 81-16 Machine
207г	5529	Feed Regulator Indicator Screw for 81-16 Machine
208E	5587	Thread Unwinder Thread Guide Rod Screw for 225392
209н	5553	Looper (left hand) Set Screw for 42051
217ј		Arch Clamp Foot Plate Screw for 55345 and 55371
217ј	5556	Arch Clamp Foot Spring Screw (lower) for 55345 and 55371

NO. PLATE	NAME
217р 5556	Belt Cover Screw for 69-20 and 69-21
	Machines
217г 5556	Guide Screw for 81-16 Machine
217г 5556	Thread (needle) Eyelet (double) Screw for 81-16 Machine
010 0570	Knife Bar Cap Screw for 69-20 and 69-21
219в 8576	Machines
223г 5544	Needle Bar Connecting Link Hinge Pin Set Screw for 42061
229E 5587	Cloth Plate Extension (lower) Screw for
229E 5587	42107Cloth Plate Extension (upper) Screw for
	42107
229р 5017	Oscillating Shaft Crank Slide Block Cap Serew for 15171
233р 3722	Face Plate Thread Guard Screw for 17725
233ъ 5530	Feed Regulator Stop Screw for 42014
233р 5553	Thread (looper, left hand) Eyelet Screw
	for 81-16 Machine
233р 3722	Thread Take-up Spring Regulator Plate
	Adjusting Screw for 17725
236o 5587	Cloth Plate Lock Spring Screw for 42107
237г 3724	Needle Set Screw for 17831
237ғ 5017	Oscillating Shaft Crank Set Screw for 18387
237г 7009	Protector Rod Collar Set Screw for 15261
237г 7009	" Spring Collar Set Screw for
	15261
283д 7394	Feed Eccentric Cover Holder Thumb Screw for 81-16 Machine
330р 5587	Frame Side Cover (left) Screw for 81-16 Machine
330р 5587	Frame Side Cover (right) Lock Spring
2000 0001	Screw for 81-16 Machine
330р 5587	Frame Side Cover (right) Screw for 81-16 Machine
335p 3759	Needle Bar Thread Nipper Driving Lever
	Extension Screw for 39350
337р 5530	Feed Regulator Indicator Plate Screw for 81-16 Machine
337р 3718	Thread Wiper Body Wire Screw for 69-20 and 69-21 Machines
356c 5587	Rock Shaft Knee Arm Hub Set Screw for 2766
356c 5587	Rock Shaft Knee Plate Set Screw for 2767
2200 0001	" " Lifting Bracket Hook Set
356c 5587	Litting Bracket Hook Set

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NO.	PLATE	NAME
35 6c	5587	Rock Shaft Lifting Bracket Set Screw for 6337
356c	5587	Rock Shaft Stop Dog Set Screw for 2770
375c	3724	Crank Connecting Rod Hinge Screw for 69-20 and 69-21 Machines
377c	3718	Needle Bar Connecting Link Hinge Screw for 69-20 and 69-21 Machines
419E	8580	Bobbin Winder Tension Screw Stud for 60770
424c		Balance Wheel Set Screw for 42001
426c		Protector Bracket Adjusting Screw for 39491
430c	3759	Stop Cam Interlocking Rod Case Spring Adjusting Screw for 39344
	8576	Treadle Shaft Set Screw for 17876
446c		Thread Take-up Cam Set Screw for 18392
448c		Protector Rod Sleeve Set Screw for 39491
	3722 5007	Tension Screw Stud Set Screw for 17725 Cylinder Base Plate Hinge Connection
4990	9007	Hinge Pin Set Screw for 18419
453c	5007	Feed Cam Driving Worm Wheel Set Screw
1000	0001	for 17797 and 39212
453c	5529	Feed Eccentric Set Screw for 42011
453c	5007	Presser Bar Guide Bracket Set Screw for
		17842
454c	7009	Protector Crank Bracket Set Screw for 39493
	5529	Feed Lifting Eccentric Set Screw for 42012
	5544	Needle Bar Bushing Set Screw for 42251
	5017	Shuttle Driver Set Screw for 2441
•	5556	Thread (looper, left hand) Tube Set Screw for 81-16 Machine
	5017	Shuttle Tension Regulating Screw for 15277 and 55359
	5017	Shuttle Bobbin Case Latch Stop Screw for 15277 and 55359
	3722	Tension Screw Stud for 17725
	5021	Thread Wiper Body Support Set Screw for 69-20 and 69-21 Machines
	8577	Shuttle Race Cap Screw for 55364
	5021	Knife Cam Lever Bracket Screw for 69-20 and 69-21 Machines
	5047	Feed Across Regulator Hinge Stud Clamping Screw for 18469 and 55353
	3724	Throat Plate Screw for 69-20 and 69-21 Machines
742F	5587	Frame Top Cover Screw for 81-16 Machine

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NO.	PLATE	NAME
$742_{\rm F}$	5587	Throat Plate Screw for 81-16 Machine
748e	8580	Brace Screw for 25285
780E		Treadle Support Bolt with 1600 $\scriptstyle\rm E$ for 25285
810л	3759	Feed Regulator Post Guide Cap Screw for 55345 and 55371
828c	5556	Tension (looper, left hand) Screw Stud for 81-16 Machine
828c	5556	Tension (looper, right hand) Screw Stud for 81-16 Machine
880E	3724	Arm Screw for 69-20 and 69-21 Machines
896e	7394	Looper (right hand) and Spreader Lever Connection Cap (lower) Screw for 42075
896E	7394	Looper (right hand) and Spreader Lever Connection Cap (upper) Screw for 42075
896E	7394	Needle Bar Connecting Rod Cap (lower) Screw for 42057
896E	7394	Needle Bar Connecting Rod Cap (upper) Screw for 42057
898d	3721	Stop Cam Interlocking Rod Case Socket Joint Cap Screw for 55304
904c	5544	Needle Bar Connecting Link Hinge Pin Set Screw for 42104
916c	5556	Tension (needle thread) Screw Stud for 81-16 Machine
934ј	5007	Feed Plate Carrier Bar Plate Screw for 55349 and 55374
935d	5586	Machine Cushion Screw for 42086
949E	5587	Arm Screw for 81-16 Machine
1012E	5529	Feed Regulator Connection Adjusting Screw for 42015
1035c	5017	Oscillating Shaft Crank Slide Block Screw Stud for 15171
1036c	5530	Feed Rock Shaft Hinge Pin Bushing Set Screw for 81-16 Machine
1036c	5530	Frame Rotary Shaft Bushing (front) Set Screw for 81-16 Machine
1036c	5553	Frame Rotary Shaft Flanged Bushing (back) Set Screw for 81-16 Machine
1036c	5553	Looper (left hand) Lever Hinge Stud Set Screw for 81-16 Machine
1057E	5047	Feed Across Connection Cap (lower) Screw for 55376
1057E	5047	Feed Across Connection Cap (upper) Screw for 55376
1057E	5529	Feed Connecting Rod Cap Screw for 42008
1099F	7009	Protector Rod Screw Stud for 63753

NO.	PLATE	NAME
1329р	8576	Needle Bar Thread Nipper Lever Spring
		Screw for 69-20 and 69-21 Machines
1343е	5021	Stop Cam Interlocking Rod Case Bracket
202023	00	Screw for 69-20 and 69-21 Machines
1354c	5587	Balance Wheel Position Screw for 42001
1373c		Feed Connecting Rod Hinge Screw for
10100	0040	81-16 Machine
1373c	5 5 29	Feed Regulator Connection Hinge Screw for 81-16 Machine
1374c	5530	Feed Regulating Screw Stud for 81-16 Machine
1375c	5553	Frame Rotary Shaft Crank Position Screw
		for 42025
1377c	5545	Presser Lever Screw Stud (eccentric) for 81-16 Machine
1378d	5545	Pressure Regulating Thumb Screw for
10.00	0010	81-16 Machine
1382г	5016	Knife Bar Driving Lever Hinge Screw for
		69-20 and 69-21 Machines
1407E	5563	Machine Base Thumb Screw, for 3 in.
		table (Accessories)
140 8E	5563	Machine Base Thumb Screw, for 2 in.
		table (Accessories)
1420E	5016	Knife Bar Driving Lever Lock Stud Stop Screw for 39297
1437b	5587	Cloth Plate Hinge Screw for 81-16 Ma-
		chine
1441c	5021	Feed Cam Driving Worm Set Screw for
		18415 and 39211
1442c	5021	Feed Cam Driving Worm Position Screw for 18415 and 39211
1500	5001	Stop Cam Interlocking Rod Case Stop
1908E	5021	Stud Screw Bushing Lock Nut for 55304
1519-	2704	Oscillating Rock Shaft Hinge Pin Nut
19191	3724	for 55278
1518E	3718	Crank Connecting Rod Hinge Screw Nut
		for 69-20 and 69-21 Machines
1518E	3718	Needle Bar Connecting Link Hinge Screw Nut for 69-20 and 69-21 Machines
1510=	5017	Oscillating Shaft Crank Slide Block Screw
19196	3011	Stud Nut for 18387
1520E	3724	Arm Shaft Bushing (back) Adjusting
		Screw Nut for 69-20 and 69-21 Machines
1520c	5529	Feed Connecting Rod Hinge Screw Nut
		for 81-16 Machine
15200	5529	Feed Regulator Connection Hinge Screw
		Nut for 81-16 Machine

NAME NO. PLATE 1520c 5553 Looper (left hand) Lever Connecting Link Hinge Screw Nut for 81-16 Machine... 1520E 3759 Stop Cam Interlocking Rod Case Spring Adjusting Screw Nut for 39344..... 1547p 5545 Presser Lever Screw Stud Nut for 81-16 Machine 1547p 5545 Lifting Lever Stop Screw Nut for 42133 and 42144..... 1560c 3722 Tension Regulating Thumb Nut for 17725 1560c 5556 Tension (looper, left hand) Regulating Thumb Nut for 81-16 Machine..... 1560c 5556 Tension (looper, right hand) Regulating Thumb Nut for 81-16 Machine...... 1560c 5556 Tension (needle thread) Regulating Thumb Nut for 81-16 Machine..... 1562 | 8580 Bobbin Winder Tension Regulating Thumb Nut for 60770..... 1600E 8580 Treadle Support Bolt Nut for 780..... 1620J 8580 Bobbin Winder Frame Hinge Screw Nut for 41604..... 1651E 5021 Needle Bar Thread Nipper Rod Adjusting Stud Lock Nut for 69-20 and 69-21 Machines 1653c 3724 Feed Cam Shaft Nut for 69-20 and 69-21 Machines..... 1654c 8576 Feed Plate Nut for 55345 and 55371.... 1654c 8576 Knife Cam Lever Roller and Screw Stud Nut for 1980..... 1655E 5587 Cloth Plate Hinge Screw Nut for 81-16 1655c 5021 Feed Regulator Roller and Screw Stud Nut for 1953..... 1662c 5021 Starting Lever Hinge Screw Nut for 55304 1676c 5047 Feed Across Regulator Adjusting Ball Screw Stud Nut for 69-20 and 69-21 Machines..... 1680c 5530 Feed Regulating Screw Stud Nut for 81-16 Machine..... 1681c 5016 Knife Bar Driving Lever Hinge Screw Nut for 69-20 and 69-21 Machines.... 1698c 5021 Knife Holder Pinion Stud Bracket Screw Nut for 55368..... 1728c 7394 Needle Clamping Nut for 81-16 Machine 1822 5021 Thread Take-up Lever Roller and Stud for 18393..... 1952 5047 Feed Across Regulator Roller and Stud for 18356.....

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			(1)	(3)			
N			* ,	Çd	NO.	PLATE	NAME
19	53 5021	Feed Regulator Roller and Screw Stud			2973	5017	Shuttle Bobbin Case Latch Lever for
		with 1655c and 14017, for 39361 and	6	-			15141
		55352	dia."	400	2974	5017	Shuttle Bobbin Case Latch Lever Fulcrum
19	80 3759	Knife Cam Lever Roller and Screw Stud					Pin for 15141
		with 1654c, for 39330			2975	5017	Shuttle Bobbin Case Latch Spring for
20	22 3722	Pulley (tight) Pin for 69-20 and 69-21	<	•			15277 and 55359
20	22 0122	Machines			2996	5017	Shuttle Bobbin for 21561 and 55361
96	49 5017	Oscillating Shaft Crank Pin for 69-20 and			~`3012	3722	Feed Cam Driving Worm Wheel Pin for
24.	10 0011	69-21 Machines					69-20 and 69-21 Machines
20	49 5017	Shuttle Driver Pin for 69-20 and 69-21	•	*	3012	3722	Stop Cam Pin for 69-20 and 69-21 Ma-
20	10 0011	Machines					chines
20	58 5046	Presser Bar for 69-20 and 69-21 Machines	₩,	(=	3012	3722	Thread Take-up Cam Pin for 69-20 and
	02 3722	Tension Disc for 17725	(3)	0			69-21 Machines
	02 5556	" (looper, left hand) Disc for 81-16	-		4292	5045	Crank Connecting Rod with 4349 and
2.	.02	Machine	•	, •	*1010		two 158E, for 69-20 and 69-21 Machines
01	02 5556	Tension (looper, right hand) Disc for	\$	à	*4349		Crank Connecting Rod Cap for 4292
2.	02 5556	81-16 Machine	€ **	1	4389	8581	Arm Dowel Pin
91	02 5556	Tension (needle thread) Disc for 81-16			4448	3722	" Qil Tube, for intermediate bearing,
21	102 5556	Machine			*****		for 69-20 and 69-21 Machines
			٠	()	*4449		Arm Shaft Bushing (front) for 18439
	103 3722	Tension Spring for 17725			4718	5586	Machine Base Cushion (felt) for 42086
	105 3722	Income of the contract of the			4784	8576	Oscillating Rock Shaft Oil Pad for 6022
	107 3722	Face Plate Thread Guard for 17725			4822	5566	Wrench for 1547 (Accessories)
	124 3722	Thread Take-up Spring for 17725 " " Regulator Plate	(b)	*	4879	5566	Chain Connecting Link for 4885
2.	127 3722		•		4879	5023	Motor Treadle Chain Connecting Link
		for 17725			4070	2000	for 46616
22	269 3722	Pulley (loose) Bushing Position Pin for	4-	-	4879	5023	Starting Treadle Chain Connecting Link
		17942	49	-	4001	7010	for 46616
2	441 5017	Shuttle Driver 2542 with two 462c, for			4881 4881	$7219 \\ 7219$	Motor Treadle for 46616
		69-20 and 69-21 Machines				5564	
	155 8580		*	₩	4881 4882	5023	Treadle for 4885
28	523 5017	_			4882	5023	Motor Treadle Shaft for 46616 Starting Treadle Shaft for 46616
_		for 15277 and 55359			4882	5566	Treadle Shaft for 4885
	523 5017		/i=	•	4883	5023	
	532 7394	9	1	•	4883	5023	Motor Treadle Spring for 46616 Starting Treadle Spring for 46616
	542 —	Shuttle Driver for 2441			4883	5566	
2	749 7394	Feed Eccentric Cover Holder Thumb	*	*	4884	5564	Treadle Spring for 4885
~		Screw Washer for 81-16 Machine	(3)		4885		Treadle complete for 42133, Nos. 4879,
2	763 5564	Rock Shaft for 42143			4000	9904	4881 to 4884 and two wood screws 1 in.
		Nos. 2765 to 2767 for 2768					No. 16
			/-		*6022	5001	Oscillating Rock Shaft (steel) with 4784,
	765 5564			' .	0022	5001	for 55278
	766 5564	Tidb with book			6337	5564	Rock Shaft Lifting Bracket with two
	767 5564	* 1200 11301 33301 1131			0001	COUL	356c, for 42143
2	768 ——	Rock Shaft Knee Arm complete for 42143, Nos. 2765 to 2767	(A	Æi.	6439		Chain, 36 in. to 45 in., with 56864 and
	770 EEG4	Rock Shaft Stop Dog with 356c, for 42143			0.100		56865, for 42133
2	770 5564	TOUCK CHAIL CLUP DOG WITH SOUC, IOI 42140					33330, 201 201001111111111111111111111111111

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NO.	PLATE	NAME
6489	5001	Oscillating Rock Shaft Hinge Pin for 55278
7071	8576	Guide Screw Washer for 81-16 Machine
7071	8576	Knife Bar Connection Screw Washer for
		69-20 and 69-21 Machines
7071	8576	Thread (needle) Eyelet (double) Screw
		Washer for 81-16 Machine
7125	5564	Rock Shaft Lifting Bracket Hook for
1120		42143
7298	8576	Knife Holder Pinion Dowel Pin for 17825
8238	5556	Tension (needle thread) Spring for 81-16
0430	9990	Machine
8414	5001	Presser Bar Spring for 69-20 and 69-21
		Machines
8422	8580	Bobbin Winder Tension Thread Guide
		for 60770
8589	3722	Feed Regulator Bracket Dowel Pin for
		69-20 and 69-21 Machines
8589	3722	Knife Cam Lever Bracket Dowel Pin for
		69-20 and 69-21 Machines
8908	5566	Wrench for 1520 and 1655 (Accessories)
9780	8580	Bobbin Winder Tension Bracket Position
		Stud for 60770
9842	5586	Machine Base Thumb Screw Spring
		Washer (Accessories)
10106	5544	Needle Bar Thread Retainer Disc for
		81-16 Machine
10107	5544	Needle Bar Thread Retainer Spring for
		81-16 Machine
10148	5556	Tension (looper, right hand) Spring for
		81-16 Machine
10875	5023	Wrench for 1518 and 1520 (Attachments
		and Accessories)
11831	5023	Screw Driver, large (Attachments and
		Accessories)
12242	5564	Rock Shaft Hanger with two wood screws
		1 in. No. 10, for 42143
12424	5017	Oscillating Shaft Crank Slide Block Cap
		Screw Washer for 15171
14017	5047	Feed Regulator Roller and Screw Stud
		Nut Washer for 1953
14063	5586	Machine Base Thumb Screw Spring
		(Accessories)
14079	8581	Arch Clamp Frame Dowel Pin for 55345
	-	and 55371
15027	5017	Shuttle Bobbin Case Position Finger for
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NAME NO. PLATE 15072 8576 Bobbin Winder Bobbin Position Pin for 27538..... 15140 5017 Shuttle Bobbin Case Latch for 15141.... " " Hinge for 15277 and 15141 55359, Nos. 2973, 2974 and 15140.... 15170 5017 Oscillating Shaft Crank Slide Block for 15171....... 15171 5017 Oscillating Shaft Crank Slide Block complete for 18387, Nos. 229p, 1035c, 12424 and 15170..... 15261 7009 Protector Rod Collar with 237r, for 63753 " Spring Collar with 237F, for 15261 7009 63753..... 15277 5017 Shuttle Bobbin Case complete for 21561, Nos. 591F, 592E, 2523, 2975, 15027, 15141 and 15278..... 15278 5017 Shuttle Tension Spring for 15277..... 16532 3722 Stop Cam Interlocking Rod Case Bracket Dowel Pin for 69-20 and 69-21 Machines 17547 5556 Tension (looper, right hand) Thread Guide for 81-16 Machine..... Arm Shaft for 69-20 and 69-21 Machines. 17702 3728 17703 5001 " Bushing (back) for 69-20 and 17708 8575 Arch Clamp Foot Lifter with 17866, for 69-21 Machine..... 17724 5001 Face Plate for 63736..... •17725 — Face Plate complete for 69-20 and 69-21 Machines, Nos. 448c, 600c, 1560c, 2103, 2107, 2124, 2127, 63736 and two each 233p and 2102..... 17738 5047 Feed Across Regulator Adjusting Ball Screw Stud Nut Washer for 69-20 and 17739 8580 Feed Across Regulator Adjusting Stud Sleeve for 69-20 and 69-21 Machines, obsolete..... 17741 8581 Belt Cover Bracket Stud for 39290..... 17744 5047 Feed Regulator Hinge Stud for 69-20 and 69-21 Machines.... 17797 5048 Feed Cam Driving Worm Wheel with 453c, for 69-20 Machine..... 17805 5007 Feed Plate Carrier Bar Pivot Block for 69-20 and 69-21 Machines 17806 8576 Feed Plate Position Stud for 55349 and 55374.....

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NO.	PLATE	NAME		••	(No.	THE A (1972)	27.4.2679
17822		Knife Bar Rack Rivet for 18370	•	-7		ю. 17866	PLATE	NAME Throad Winer Dade Hash for 17700 and
17825	8576	" Holder with 17826, 17830 and two				17800	7229	Thread Wiper Body Hook for 17708 and
17020	0010	7298, for 55323		(a)	,d	17867	7229	39206
17826	8576	Knife Holder Pinion for 17825		•	4	11001	1223	and 69-21 Machines
17827	8576	" " Stud for 17828				17868	7229	Thread Wiper Body Wire for 69-20 and
17828	8576	" " Bracket with		-		*1000	1220	69-21 Machines
17020	3010	17827, for 55368		4	0	17869	7229	Thread Wiper Body Wire Screw Washer
4 1 000	0.550					11000	1225	for 69-20 and 69-21 Machines
17829	8576	Knife Thread Holder for 55323				17070	0701	
17830	8576	* ODIOLO		_	-	17872	3721	Trip.Lever for 55304
		. 17825		•	(⊅	17873	3721	" " Spring for 55304
17831	5046	Needle Bar with 237F, for 69-20 and 69-21		-1		17874	7229	Tripping Point for 18410 and 55372
		Machines		₹:	9	17876	3728	Treadle with 443c, for 17884
17834	3718	Needle Bar Thread Nipper Lever with		(4)	(3)			Nos. 17877 to 17879 for 17880
		17835, for 69-20 and 69-21 Machines						
17835	3718	Needle Bar Thread Nipper Lever Bushing		P.		17877	3728	Treadle Pitman Rod (lower)
		for 17834		(₹	17878	3728	" " (upper)
				*	N.	17879	3728	" " Clamp with two
		Nos. 17837 to 17846 for 69-20 and						161p
		69-21 Machines				17880	3728	Treadle Pitman complete for 17885, Nos.
17837	5045	Needle Bar Thread Nipper Rod		(1			17877 to 17879
17838	3718	" " " Adjusting			•			
		Stud						Nos. 17881 to 17883 for 17884
17839	3718	Needle Bar Thread Nipper Rod Arm with				17881	8580	Treadle Shaft
		196г		1	(36)	17882	3718	" Spring
17840	5001	Needle Bar Thread Nipper Rod Support				17883	3728	" Stand
17841	3718	Presser Bar Collar with two 196F				17884		Treadle complete for 17885, Nos. 17876,
17842	3718	" Guide Bracket with 453c						17881 to 17883 and two wood screws
17843	5045	" Lifting Lever		(1		i in. No. 10
17844	5049	" " " Bracket for				17885		Treadle and Pitman complete for 69-20
11011	0010	18439				11000		
15045	F040	Presser Bar Lifting Lever Rod		(*	-			and 69-21 Machines, Nos. 17880 and
17845	5046	" " " Chain		2-	•			17884
17846	F040	Ollani				17886	5048	Starting Lever Pitman for 69-20 and
17848	5049	Pulley (loose) Bushing for 17955		٠.	.*			69-21 Machines
17853	5048	Starting Lever for 55304		(0	Ò¥	17892	3728	Table Belt Guide Bracket with two 153E,
17854	3721	Stop Cam for 17955	*		•			for 39221
17855	3721	" " Interlocking Rod for 55285 " " Case Socket		-1	i.	17893	3728	Table Belt Guide Pulley for 39221
17859	5048	Case Buckey		4		17896	3718	" " " Shaft Plug for
		Joint for 55304		•	Ų.			39219 and 39220
17861	3721	Stop Cam Interlocking Rod Case Stop				17905	5023	Wrench for 1654 and 1676 (Attachments
		Stud for 55304						and Accessories)
17862	3721	Stop Cam Interlocking Rod Case Stop		60	04	17915	5016	Knife Bar Connection Slide Block for
		Stud Spring for 55304			ź.s.			17917
17863	3721	Stop Cam Interlocking Rod Spring for				17916	5016	Knife Bar Connection Slide Block Stud
	•	55285						for 17917
17864	3721	Stop Cam Interlocking Rod Stop for 55285		(4	, Silly	17917		Knife Bar Connection Slide Block 17915
17865	7229	Thread Wiper Body for 69-21 Machine				•		with 17916, for 18372

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NO.	PLATE	
NO. 17919	5016	Knife Bar Driving Lever Lock Stud
	3010	Spring for 39297
17941	5049	Pulley (loose) 21/8 in. diam., for 17955
17942	5049	" (tight) 27% in. diam., with 2269, for 17955
17955		Pulleys complete for 69-20 and 69-21 Machines, Nos. 1202b, 1206c, 17848, 17854, 17941 and 17942
17960	8581	Arch Clamp Foot Plate for 55371
18352		Cylinder for 69-21 Machine
18353	5045	Feed Across Connection with 18354 and two 175E, for 69-20 and 69-21 Machines, obsolete
18354		Feed Across Connection Cap for 18353, obsolete
18355	8580	Feed Across Knuckle Joint for 69-20 and 69-21 Machines, obsolete
18356	5045	Feed Across Regulator with 1952, for 55354 and 55375
18357	5047	Feed Across Regulator Hinge Stud for 55354 and 55375
18358	5046	Feed Across Shaft for 69-20 and 69-21 Machines
18359	5047	Feed Across Shaft Collar with two 200r, for 69-20 and 69-21 Machines
\$33 62	5007	Feed Across Shaft Crank (front) with 160E
M		and 18363, for 69-20 and 69-21 Ma- chines
18363	5007	Feed Across Shaft Crank (front) Stud for 18362
18364	5007	Feed Across Shaft Crank (front) Stud Slide Block for 69-20 and 69-21 Machines
18366	5007	Feed Plate Carrier Bar Block for 55374
18367	5007	" " " Cover for
		55371
18370	5044	Knife Bar with 18373 and two 17822, for 69-20 and 69-21 Machines
18372	5016	Knife Bar Connection with 17917, for 69-20 and 69-21 Machines
18373	8576	Knife Bar Rack for 18370
18384	5007	Feed Cam Pin for 69-20 and 69-21 Machines
18385	5046	Oscillating Shaft for 69-20 and 69-21 Machines
18386		Oscillating Shaft Crank for 18387

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*:	è	NO.	PLATE	
(3		18387	5017	Oscillating Shaft Crank complete for 69-20 and 69-21 Machines, Nos. 237F, 1519E, 15171 and 18386
,) *		18388	8581	15171 and 18386
Ċ	1 (A)	18390	5007	Feed Plate Carrier Bar Plate for 55349 and 55374
		18397	5045	Thread Take-up Cam 55302 with 446c, for 69-20 and 69-21 Machines
9	*	*18393	5049	Thread Take-up Lever with 1822, for 55283
r Va	?	18410		Feed Cam with 17874 and two each 1900 and 1192c, for 69-20 Machine
	400	18413	8577	Shuttle Race Ring Spring for 55364
•	1	18415	5007	Feed Cam Driving Worm with 1441c and 1442c, for 69-20 Machine
(}:	, P	18416	5046	Feed Cam Shaft for 69-20 and 69-21 Machines
(3)		18417	5049	Feed Cam Shaft Bracket for 69-20 and 69-21 Machines
•	<i>5</i>	18419		Cylinder Base Plate with two 453c, for 18424
্	 	18420	8580	Cylinder Base Plate Hinge Connection for 18424
		18421	5047	Feed Across Shaft Crank (back) with 160E and 200c, for 69-20 and 69-21 Machines
<i>,5</i> 5		18422	5047	Feed Across Shaft Crank (back) Ball Stud for 69-20 and 69-21 Machine, opsolete
.5		18423	8580	Cylinder Base Plate Hinge Connection Hinge Pin for 18424
		18424	5044	Cylinder Base Plate (hinged) complete for 69-20 and 69-21 Machines, Nos. 18419,
	- (**			two each 18420, 18423, three wood
:) :	₩.		•	screws 1¼ in. No. 12 and four 134b (Attachments and Accessories)
. (<u>s</u>		*18437	5046	Feed Plate Carrier Bar for 55349 and 55374
		*18439		Arm with 4449, 17844 and two 164E, for 69-20 and 69-21 Machines
্ৰ	· 	18443		Stop Cam Interlocking Rod Case Wearing Block for 18492
		18469		Feed Regulator Bracket with 690p, 39310 and two 160p, for 55375
Ť		18470	5048	Knife Cam Lever Bracket with 1177p, for 69-20 and 69-21 Machines
	_	8931—5		

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			· (*)	•			and of Taking
NO.	PLATE	NAME	e.	(6	NO.	PLATE	NAME
18471	3759	Knife Cam Lever Hinge Screw Bushing for 18472				7234	Thread Unwinder Thread Cone (wood) for
*18472		Knife Cam Lever Hinge Screw Bushing	(0)	_•	*27849		large cones, for 225396 and 225397
10412		· · · · · · · · · · · · · · · · · · ·	•	•	*27850		Bobbin Winder Spindle for 27538
		18471 with 50029c, for 69-20 and 69-21			27916	5016	Const for 27538.
		Machines	, <u>.</u>	(**	28084		Drake (leatner) for 41598.
18488	3759	Feed Regulator Post for 55374	· · · · · · · · · · · · · · · · · · ·	· 🐙			Rivet for 41598
18489	3759	" " Guide for 55345 and 55371		!	20000	1004	Looper (right hand) and Spreader Lever Connection Oil Tube Packing (felt) for 42106
18492	5049	Stop Cam Interlocking Rod Case 55387 with 18443 and two 1930, for 55285			*39203	3718	Needle Bar Connecting Link for 63756.
18493		Stop Cam Interlocking Rod Case Bracket			39206	8581	Arch Clamp Foot Lifter with 17866, for
		55304 with 39343, 39344 and two 1186r,	•		20211	5045	69-20 Machine
	9 .	for 69-20 and 69-21 Machines	(6)	•	39211	3043	Feed Cam Driving Worm with 1441c and 1442c, for 69-21 Machine,
18498	5044			1 .	39212	5045	Feed Cam Driving Worm Wheel with
19045	7394	Frame Side Cover (left) Handle for 42193	•	_			453c, for 69-21 Machine
19793	8576	Knife Cam Lever Slide Steady Pin for	· (4)	1			
*21358		Feed Across Connection Cap (lower) for		!	00010		Nos. 39218 to 39220 for 39221
21000		55376			39218	3728	Table Belt Guide Belt Guide with two
21561	5017	Shuttle, 111 in. diam., for 69-21 Machine,	(6)		39219	3728	Toble Belt Crists B.B. Cl. A. d.
		Nos. 2996, 15277 and 21562			09219	0120	Table Belt Guide Pulley Shaft (long) with 17896
21562		Shuttle Body for 21561 and 55361		, ,	39220	3728	Table Belt Guide Pulley Shaft (short)
21623	8577	" Race Cap for 55364		_		0.20	with 17896
21629	3718	Needle Bar Connecting Stud with 155c,	, A	*	39221		Table Belt Guide complete for 69-20 and
		for 63756	•				69-21 Machines, Nos. 17892, 39219,
22003	5023	Wrench for 1651 (Attachments and Acces-					39220, two each 17893, 39218 and three
		sories)	, 44	44,			wood screws 1¼ in. No. 12
25086	5023	Wrench for 25285	^		39222	5001	Belt Shifter for 55285
25127	7229	Belt Hook for 25490		!	39223	8581	" " Clamp for 55285
25285		Stand (iron work) complete for 69-20 and	90		39235	5048	Knife Cam Lever Body for 39409
		69-21 Machines, Nos. 25086, 46618,	.~	_	39276	8576	Needle Bar Thread Nipper Lever Spring
		46667, two each 780E, 46522 and four					for 69-20 and 69-21 Machines
		748E	*	-	39290	5001	Belt Cover Bracket with 184E and 17741,
25490		Belt, size ¼ in., length 36 in., with 25127,	, 10	•			for 69-20 and 69-21 Machines
	MO 30	for 25285			39297	5016	Knife Bar Driving Lever with 190D, 1420E,
26026	5023	Screw Driver, machine (Attachments and Accessories)	•	مق ا			17919 and 39298, for 69-20 and 69-21
26151	5566	Serew Driver (Accessories)	. 65		39298	E010	Machines
26485	5023	" "shuttle tension (Attachments		,	99296	9010	Knife Bar Driving Lever Lock Stud for
20100	0020	and Accessories)		İ	39303	0501	39297
27321	8579	Bobbin Winder Frame for 41604	,_		09000	0991	Arch Clamp Foot Spring for 55345 and
27328	8579	" Stop Latch for 41604			*39310		55371
27538	8579	" Spindle 27849 with 15072,		}	0.010		Feed Regulator Bracket Cap for 18469
	JJ. 0	27850 and 41828, for 41604			39313	3759	and 55353Feed Regulator Swivel for 55375
27662	5023	Wrench for 1508 (Attachments and Acces-	(A)	! ##	39329	5048	Knife Cam Lever complete for 69-20 and
		sories)	,,, <u>,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,</u>			3010	69-21 Machines, Nos. 19793 and 39409
•							55 =1 Machines, 1708, 19795 and 59409

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NO.	PLATE	NAME	*	300	NO.	PLATE	NAME
39330	3759	Knife Cam Lever Slide with 1980, for 39460	^	**			Bobbin Winder for 41716, Nos. 35p, 1620j,
39331	3759	" " " Screw Washer for			11001	0010	27321, 27328, 27538, 41598, 41600,
30332	3.70	39460	/_				41825 and 50356b
00040	F040			.02	41716	5023	Bobbin Winder Bracket for 41716
39343	5049	Stop Cam Interlocking Rod Case Spring			41715	0023	
20211		(flat) for 18493			41716		Bobbin Winder (swinging automatic, left
39344	3759	Stop Cam Interlocking Rod Case Spring	(iii)	(15)			hand) complete for 2996 for 69-20 and
		Bracket with 430c and 1520c, for 18493	~				69-21 Machines, Nos. 161p, 41604, 60770
39346	5049	Stop Cam Interlocking Rod Case Bracket					and two 1186c.
		for 55304			41825	8580	Bobbin Winder Frame Spring for 41604
39350	5045	Needle Bar Thread Nipper Driving Lever	•	*	41828	8580	" Spindle Collar Pin for
		(adjustable) with 39351 and two 335D,	7				27538
		for 69-20 and 69-21 Machines		'a	42001	5576	Balance Wheel, $2\frac{3}{16}$ in. pulley, with $424c$
39351	3759	Needle Bar Thread Nipper Driving Lever					and 1354c, for 81-16 Machine
		Extension for 39350	(● }	42002	5526	Cloth Plate for 42107
39352	5045	Needle Bar Thread Nipper Driving Lever			42003	5526	" Extension (lower) for 42107
30302	0010	Spring for 69-20 and 69-21 Machines	*	. •	42005	5526	" Lock Spring for 42107
39361	5048	Feed Regulator with 1953, for 55375		•	42007	5529	Feed Bar Hinge Pin for 81-16 Machine.
39409		Knife Cam Lever Body 39235 with 39460,	-r.	-	42008	5529	" Connecting Rod with 42009 and two
00100		for 39329					1057E, for 81-16 Machine
39460		Knife Cam Lever Slide 39330 with 1255p			*42009		Feed Connecting Rod Cap for 42008
99400		and 39331, for 39409		*			
39489	7000	•				Nos.	42011 to 42026 for 81-16 Machine
39490	1003	Protector Arm with 39490, for 63753 Blade for 39489			42011	5529	Feed Eccentric with two 453c
99490		Diade 101 59469			42012	5529	" Lifting Eccentric with two 462c
		Nos. 39491 to 39494 for 63753	i 🍅	# 1	42013	5529	" " Connection
90401	7000	D () D 1 (1) () 1 (20)			42014	5530	" Regulator with 233p and two 1259c
39491	7008	Protector Bracket with two each 426c and		:	42015	5529	" Connection with 1012E
		448c		ľ	42016	5530	" " Hinge Stud
39492	7009	Protector Crank with 160c	, 188)		42017	5529	" " Indicator
39493	7009	" Bracket with 1120c and			42018	5530	" " Plate
		two 454c		,	42019	5530	" Rock Shaft for 42020
39494	7008	Protector Rod		de la		2000	Feed Rock Shaft complete, Nos. 42019
39495	7009	" Connection for 39498	•	, -	42020		the contract of the contract o
39496	7008	" " Sleeve for 63753		!	40001	****	and 42021
39497	7009	" Spring for 63753	•	. 	42021	5530	Feed Rock Shaft Crank with 157E, for
39498		Protector (front of needle) complete for	59	3 5	*10000		42020
00-00		69-20 and 69-21 Machines, Nos. 39495,]	*42022		Frame
		63753 and two each 176p and 50351p			42023	5576	" Rotary Shaft
00741	****				42024	5576	" " Bushing (front)
39541	5545	Presser Foot Screw Washer for 81-16	•	₽	42025	5553	Clank with 1255C
100.45		Machine					and 1375c
40247	5544	Needle Bar Connecting Link Hinge Pin			42026	5576	Frame Rotary Shaft Flanged Bushing
		for 81-16 Machine	(=	on.			(back)
41400	5023	Machine Rest Pin, wood (Attachments	•		42028	5526	Frame Side Cover (right) hinged, for 81-16
		and Accessories)		{			Machine
41598	8579	Bobbin Winder Base with 27916 and two]	42029	5576	Frame Top Cover for 81-16 Machine
		28084, for 41604	(4)	لأهلا	42045	5545	Presser Lever Hinge Stud for 81-16
41600	8579	Bobbin Winder Pulley with 155c, for 41604		•			Machine
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62		NUMERICAL LIST OF PARTS					NUMERICAL LIST OF PARTS
			5	(%			
NO.	PLATE	S NAME	۶۰	*	NO.	PLATE	NAME
	Nos	s. 42050 to 42055 for 81-16 Machine			42086	5564	Machine Base with three wood screws
42050	5553	Looper (left hand)		-			1¼ in. No. 12 and four each 935D,
42051	5553	" " Lever with 209H	9 *	ر.			4718 and 42088, for 81-16 Machine
42052	5553	" " " Connecting Link			42088	5586	Machine Cushion (felt) for 42086
42053	5553	" " " Hinge Stud			42089	5566	Wrench for 1324, 1374 and 1728 (Acces-
42054	5544	Needle Bar	O)	<i>6</i> >			sories)
42055	5544	" " Connecting Link			42090	5566	Threading Wire (Accessories)
42057	5544	" " Rod with 42059,			42093	5556	Thread (looper, right hand) Staple for
		42076 and four 896E, for 81-16 Machine	o	၂ ၁			81-16 Machine
*42059		Looper (right hand) and Spreader Lever	À	•	42094	5526	Feed Eccentric Cover for 81-16 Machine.
*40050		Connection Cap (upper) for 42075	*	,	42098	5530	" Rock Shaft Hinge Pin for 81-16
*42059		Needle Bar Connecting Rod Cap (upper)					Machine
42061	5544	for 42057	(3) >		Nos	. 42102 to 42108 for 81-16 Machine
42001	. 0044	Needle Bar Connecting Bracket with 187p and 223r, for 81-16 Machine			42102	7304	Feed Eccentric Cover Holder
42066	5544	Needle Guard for 81-16 Machine		,	42102		Needle Bar Crank (back) with 1258c and
42069	5545	Presser Lever for 81-16 Machine	•) >	12100	0011	two 1259c
42070	5545	" " Lifter for 81-16 Machine			42104	5544	Needle Bar Crank (front) with 904c, 1258c
42071	5545	" Spring for 81-16 Machine		•			and 1259c
42073	5553	Looper (right hand) and Spreader Lever	۵	(2)	42105	5544	Needle Bar Crank Shaft
		with 1259c, for 81-16 Machine		l	42106	7394	Looper (right hand) and Spreader Lever
42074	5553	Looper (right hand) and Spreader Lever					Connection Oil Tube and Bracket with
		Ball Stud for 81-16 Machine					29599
42074	5553	Needle Bar Crank (back) Ball Stud for	4	3	42107		Cloth Plate complete, Nos. 42002, 42003,
10075		81-16 Machine					42005, 42108, two 236p and five 229E
42075	5553	Looper (right hand) and Spreader Lever			42108	5526	
		Connection with 42059, 42076 and four	3 .	70	42115	5544	Needle Bar Thread Retainer Bracket for
*40050		896E, for 81-16 Machine	•				81-16 Machine
*42076		Looper (right hand) and Spreader Lever]	42121	5556	Tension (looper, left hand) Spring for
*42076		Connection Cap (lower) for 42075 Needle Bar Connecting Rod Cap (lower)	⇔	3	40100	=004	81-16 Machine
42010		for 42057	4		42126	7394	Thread (looper, right hand) Pull-off for
42077	7394	Looper (right hand) and Spreader Lever			42127	5556	81-16 Machine
~=		Connection Guide for 81-16 Machine		•	42127	9990	81-16 Machine
42077	7394	Needle Bar Connecting Rod Guide for	•	≥ 3			or-to madmic
		81-16 Machine				Nos.	42130 to 42132 for 42133 and 42144
42078	7394	Looper (right hand) and Spreader Lever	•	3*	42130	5586	Lifting Lever
		Hinge Pin for 81-16 Machine	C	3	42131	5586	" " Bracket
42079	5530	Feed Rock Shaft Hinge Pin Bushing for			42132	5586	" " Spring
		81-16 Machine			42133		Foot Lifter complete for 81-16 Machine,
42079	5530	Looper (right hand) and Spreader Lever	(3)	(C)			Nos. 1301p, 4885, 6439, 42130 to 42132
10000	5550	Hinge Pin Bushing for 81-16 Machine	•	***			and two each 1148r, 1229c and 1547p
42082	5556	Tension (needle thread) Thread Guide for			42142	5564	Lifting Lever Connecting Rod for 42144
42084	5556	81-16 Machine		1 .	42143	5564	Rock Shaft complete for 42144, Nos. 2763,
14001	0000	Machine	Ki)	وري			2768, 6337, 7125 and two each 2770 and
		1*100/HHC		I			12242

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NO.	PLATE	NAME	*	•	No.	PLATE	NAME
42144		Knee Lifter complete for 81-16 Machine,			-		Starting Treadle complete for 46618, Nos.
		Nos. 1301p, 42130 to 42132, 42142,	4.			-	4879, 4881 to 4883, 46614 and 46615
		42143 and two each 1148r, 1229c and	(O)	. >	46617	7219	Treadle Support for 46618
		1547D			46618		" 46617 with two 46616 and
42166	5553	Looper (right hand) for 81-16 Machine					four 1177E, for 25285
42192	7394	Frame Side Cover (right) Lock Spring	Ón	∌	46667	7219	Brace for 25285
		for 81-16 Machine	()	(50018r		Knife Holder Pinion Stud Bracket Screw
42193	5588	Frame Side Cover (left) with 19045, for			000201	0022	for 55368
		81-16 Machine			50029c	3759	Knife Cam Lever Hinge Screw for 18472
42195	5588	Needle Guard Holder for 81-16 Machine	(3)	(*)	50117л		" (stationary) Screw for 55368
42205	5588	Feed Bar with 1253c, for 81-16 Machine	•	4	50169р		Throat Plate Chaining-off Finger Screw
42242	7394	Thread (looper, left hand) Eyelet for		3	001002		for 42433
		81-16 Machine			50333c	8581	Arm Shaft Bushing (back) Adjusting
*42251		Arm with two each 462c and 42253, for	()	>	••••	0001	Screw for 69-20 and 69-21 Machines.
		81-16 Machine			50351p	7009	Protector Bracket Screw for 39498
42253	5544	Needle Bar Bushing for 42251	•		50356p		Bobbin Winder Frame Hinge Screw for
42290		Feed Regulating Screw Stud Washer for	⋄	•	00000	0000	41604
		81-16 Machine	:		50562c	7394	Looper (left hand) Lever Connecting Link
42367	7394	Frame Rotary Shaft Front Bearing Oil Pad			000020	1001	Hinge Screw for 81-16 Machine
		(braided cotton) for 81-16 Machine	4	Æ,	50598c	5047	Feed Across Regulator Adjusting Ball
			5.4	6.0	000000	0011	Screw Stud for 55379
	Nos.	42422 to 42433 for 81-16 Machine			52598	7009	Protector Crank Hinge Stud for 63753.
42422	7395	Feed Dog				7394	Frame Rotary Shaft Flanged Bushing
42423		Guide	r*n	3	0.1001	.001	(back) Oil Pad (braided cotton) for
42424		Presser Foot Plate for 42426	•	A			81-16 Machine
42425		" " Shank for 42426			55278		Oscillating Rock Shaft complete for 69-20
42426	7395	Presser Foot (hinged) complete, Nos. 2532,			304.0		and 69-21 Machines, Nos. 1513J, 6022
		42424 and 42425	3	()			and 6489
42427	7395	Spreader	•	(*	55283		Thread Take-up Lever 18393 with 79c,
42428	$\hat{7}395$	Thread (needle) Eyelet (double)			00200		for 69-20 and 69-21 Machines
42429	7395	" Controller		~	*55285		Stop Cam Interlocking Rod Case 18492
42430	7395	Throat Plate for 42433	(3)	⇒			with 1318p, 17855, 17863, 17864, 39222,
42431	7395	" " Chaining-off Finger for	0.0	:			39223 and two 1255D, for 55304
		42433	•		55300	8576	Feed Plate Carrier Bar Block Steady Pin
42432	7395	Throat Plate Chaining-off Finger, for purl		>>			for 55349 and 55374
		stitch, for 42433	***	. =	*55302		Thread Take-up Cam for 18392
42433		Throat Plate complete for 42422, Nos.	W W		55304		Stop Cam Interlocking Rod Case Bracket
		42430, 42431 and two 50169p	u	_			complete for 18493, Nos. 1182E, 1196c,
42639	8576	Knife (stationary) Bracket Pin for 55366	*1¢ 3 6	3			1204е, 1254с, 1262с, 1508е, 1662с,
43808		Bobbin Winder Tension Spring for 60770					17853, 17859, 17861, 17862, 17872,
46522	7219	Leg for 25285					17873, 39346, 55285 and two 898D
46614	7219	Motor Treadle Bracket (left) for 46616	(3)	3	55319	8576	Knife (needle thread) for 55323
46614	7219	Starting Treadle Bracket (left) for 46616	•	-		8576	" (shuttle thread) for 55323
46615	7219	Motor Treadle Bracket (right) for 46616				8576	" (stationary) for 55368
46615	7219	Starting Treadle Bracket (right) for 46616	•			8576	" Bracket for 55366
46616		Motor Treadle complete for 46618, Nos.	(A)	(5)	55323		" Holder 17825 with 1198c, 17829,
		4879, 4881 to 4883, 46614 and 46615					55319 and 55320, for 55368
		,					

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66	3	NUMERICAL LIST OF PARTS	4				NUMERICAL LIST OF PARTS
			ð] ∴			
NO.	PLATE	NAME	•		NO.	PLATE	NAME
55326	8578	Throat Plate Needle Hole Bushing for		ļ ·	55366	•	Throat Plate with 55322 and two 42639,
		55367			F F O 0 H	0.570	for 55367
55341	8581	Arch Clamp Foot with 55342, for 55345.	40 *		55367	8078	Throat Plate 55366 with 55326 and two
55342	8581	" " Lifting Stud for 55341.			*****		1208p, for 55368
55343	8581	" . " " Plate for 55345		• •	55368		Throat Plate complete for 69-20 and 69-21
55344	5043	" " Frame for 55345	Ð	\mathcal{O}			Machines, Nos. 1698c, 17828, 50018r,
55345		Arch Clamp complete for 69-20 Machine,					50117 _J , 55321, 55323 and 55367
00020		Nos. 810J, 1175J, 1654c, 18489, 39303,		į	55369	8575	Arch Clamp Foot with 63726, for 55371
		55341, 55343, 55344, 55348, 55349,		1	55370	5043	" " Frame for 55371
		55351, two each 181D, 14079 and five	(7)	. ⇒	55371		Arch Clamp complete for 69-21 Machine,
		217,		1			Nos. 810 _J , 1175 _J , 1654c, 17960, 18367,
******			*	1			18489, 39303, 55369, 55370, 55373,
*55346	7040	Cylinder for 69-20 Machine " End Cover for 69-20 and 69-21	, sins.				55374, two each 181D, 14079 and five 217J
55347	5046		Ð) D	55372		Feed Cam with 17874 and two each 190p
		Machines		_			and 1192c, for 69-21 Machine
55348	8575	Feed Plate for 55345	•	,=	55373	8575	Feed Plate for 55371
55349		" Carrier Bar 18437 with 9341,	()	7	55374		" Carrier Bar 18437 with 934J,
		1195E, 1221c, 18390, 55350, 55355, two		-			1195E, 1221c, 18366, 18390, 18488, two
		55300 and four 17806, for 55345					55300 and four 17806, for 55371
55350	5047	Feed Plate Carrier Bar Block for 55349.	de		55375		Feed Regulator Bracket 18469 with 18356,
55351	8575	" " " Cover for	\$P	(X)			18357, 39313 and 39361, for 69-21 Ma-
		55345					chine
55352	5048	Feed Regulator with 1953, for 55354			55376	5045	Feed Across Connection with 21358, 55377
55353	5048	" " Bracket with 690p, 39310	.6				and four 1057E, for 55379
00000	9040	and two 160p, for 55354	9	⊅	*55377		Feed Across Connection Cap (upper) for
55354		Feed Regulator Bracket 55353 with 18356,					55376
JOOJT		18357, 55352 and 55356, for 69-20			55379		Feed Across Connection 55376 with 50598c
		Machine	124				and 55382, for 69-20 and 69-21 Ma-
	-0.15		•	الإ.			chines
55355		Feed Regulator Post for 55349		}	55382	5047	Feed Across Shaft Crank (back) Ball Stud
55356		DWITCH TOT GOOD 1:			3333 <u>-</u>	001.	for 55379
55357	8576	Knife Bar Cap for 69-20 and 69-21 Ma-	Ø	بر	55387		Stop Cam Interlocking Rod Case for 18492
		chines		~	56864	5566	Chain Hook (large) for 6439
55358		Shuttle Bobbin Case Position Finger for			56865	7229	" (small) for 6439
		55359		•	60769	8579	Bobbin Winder Tension Bracket for 60770
55359	8577	Shuttle Bobbin Case complete for 55361,	•	, ≱	60770	8579	Bobbin Winder Tension Bracket complete
		Nos. 591F, 592E, 2523, 2975, 15141,		!	porto	0019	for 41716, Nos. 419E, 1562J, 8422, 9780,
		55358 and 55360	*	.56			
55360	8577	Shuttle Tension Spring for 55359	<i>i</i> h	/50	60913	7022	43808, 60769 and two 2455
55361		Shuttle, 111 in diam., for 69-20 Machine,		-	00919	1200	Thread Unwinder Spool Weight with
		Nos. 2996, 21562 and 55359			60014	7000	60914, for 225396 and 225397
55362		Shuttle Race Body for 55364			60914	7229	Thread Unwinder Spool Weight Centre Pin
55363		" " Ring for 55364	6	(>	69700	0555	for 60913
55364		Shuttle Race (flexible) complete for 69-20			63726	8575	Arch Clamp Foot Lifting Stud for 55369
00001	Ç., 1	and 69-21 Machines, Nos. 662p, 2523,			*63736		Face Plate 17724 with 2105, for 17725
		21623, 55362, 55363 and two each 1289p			63753		Protector (front of needle) for 39498, Nos.
		and 18413	(A)	,)i			1099F, 39489, 39491 to 39494, 39496,
55365	8576	Thread Wiper Body for 69-20 Machine					39497, 52598 and two 15261
00000	0010	Throws after soon, to be at the soon of the					

(3)

NO.	PLATE	NAME
63756		Needle Bar Connecting Link 39203 with 21629, for 69-20 and 69-21 Machines
120341	4079	Tweezers, curved (Attachments and Accessories)
120344	5566	Oiler (copper plated) with 120345 (Accessories)
120345	5566	Oiler Spout, 5 in. long, for 120344
120346	4079	" (copper plated) with 120347 (Attachments and Accessories)
120347	4079	Oiler Spout, 9 in. long, for 120346
200383c	7229	Thread Unwinder Spool Rest Rod Set Screw for 202490
20 1018c	7229	Thread Unwinder Spool Rest Set Screw for 225389 and 225395
201696ј	7229	Thread Unwinder Thread Guide Lock Nut for 225396 and 225397
202490	7233	Thread Unwinder Spool Stand with 200383c, for 225396 and 225397
225388	7233	Thread Unwinder Spool Rest Rod for 225396 and 225397
225389	7165	Thread Unwinder Spool Rest with 201018c, for 225397
225390	7234	Thread Unwinder Thread Cone Holder, for inverted cones, for 225396 and 225397
225391	7233	Thread Unwinder Thread Guide for 225396 and 225397
225392	7233	Thread Unwinder Thread Guide Rod with 208E and 225393, for 225396 and 225397
225393	7229	Thread Unwinder Thread Guide Rod Washer for 225392
225395	7233	Thread Unwinder Spool Rest with 201018c, for 225396 and 225397
225396	7233	Thread Unwinder complete, for two spools, for 69-20 and 69-21 Machines, Nos. 201696J, 202490, 225388, 225392, 225395, two each 60913, 225391 and three wood screws 1/8 in. No. 13
225397	7165	Thread Unwinder complete, for three spools, for 81-16 Machines, Nos. 201696J, 202490, 225388, 225389, 225392, 225395, three each 60913, 225391 and three wood screws ½ in. No. 13

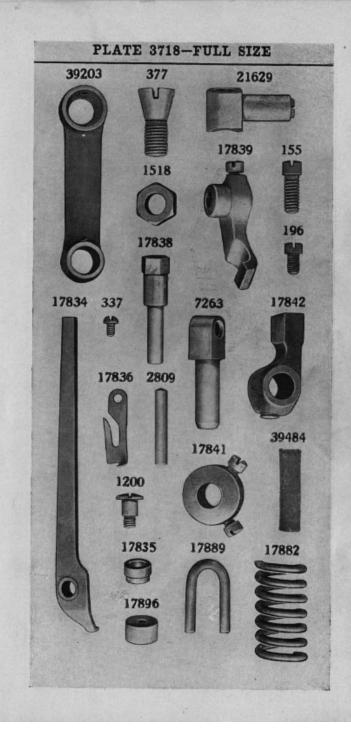


PLATE 3721-FULL SIZE

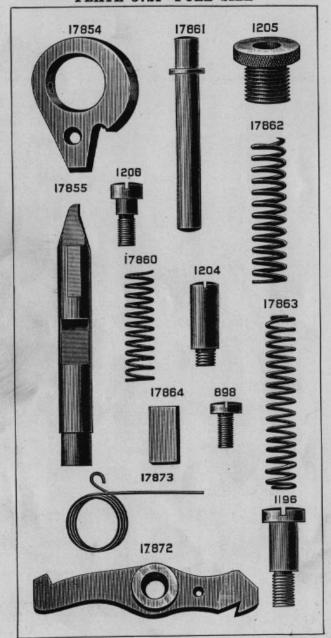


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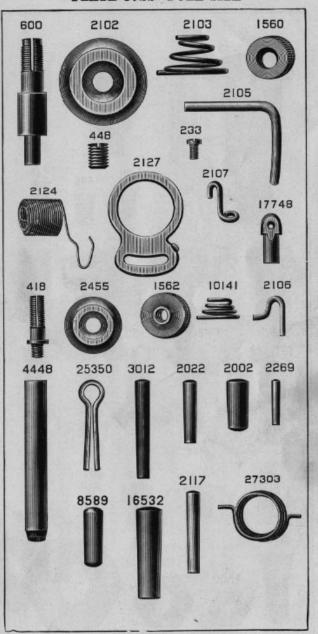


PLATE 3724-FULL SIZE

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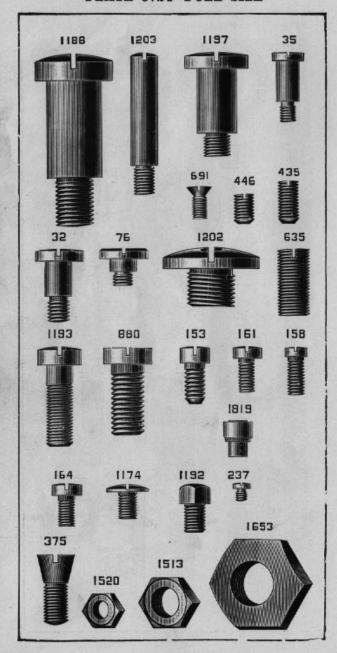
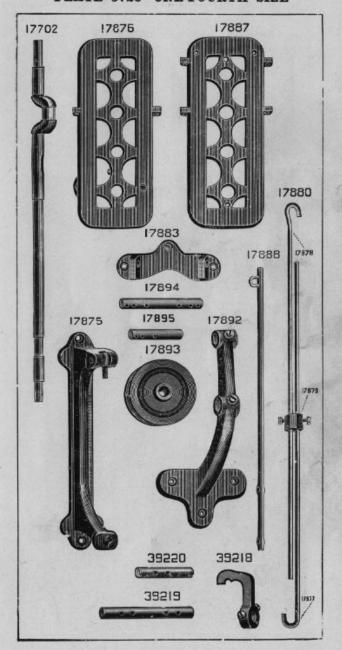


PLATE 3728-ONE-FOURTH SIZE



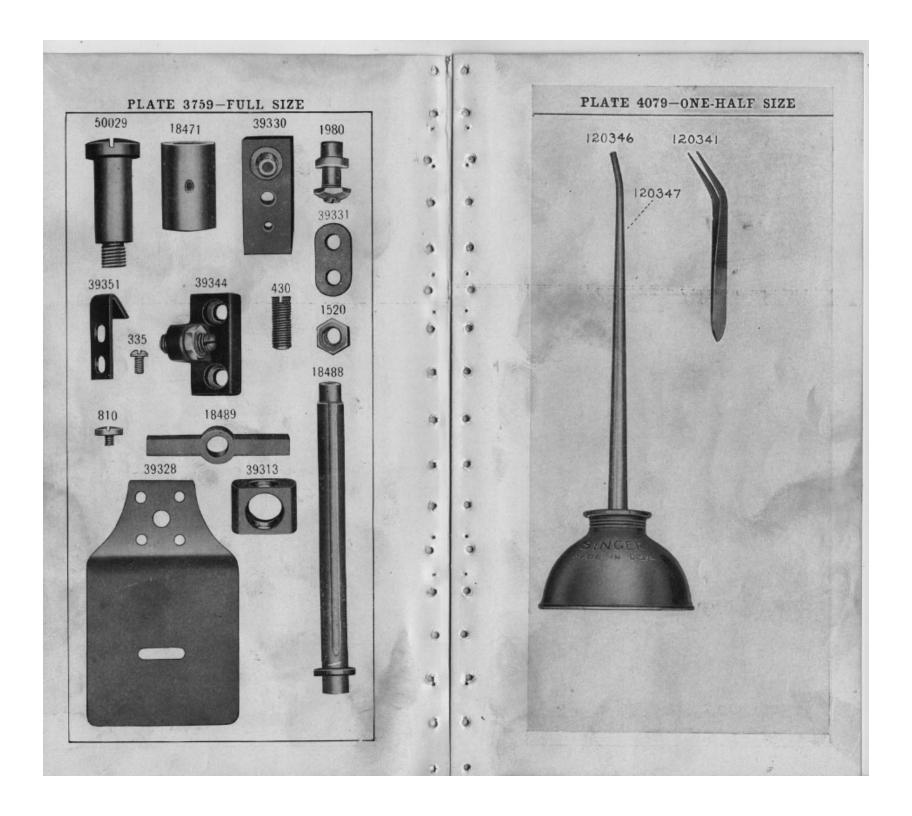
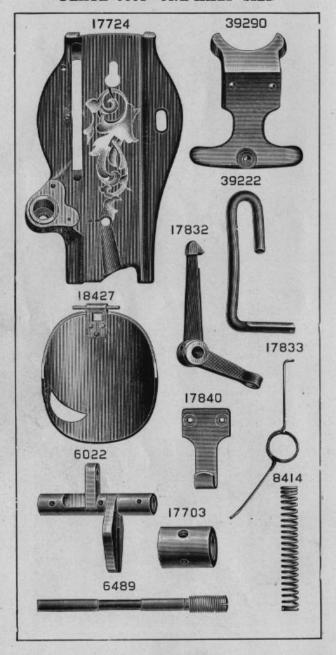


PLATE 5001-ONE-HALF SIZE

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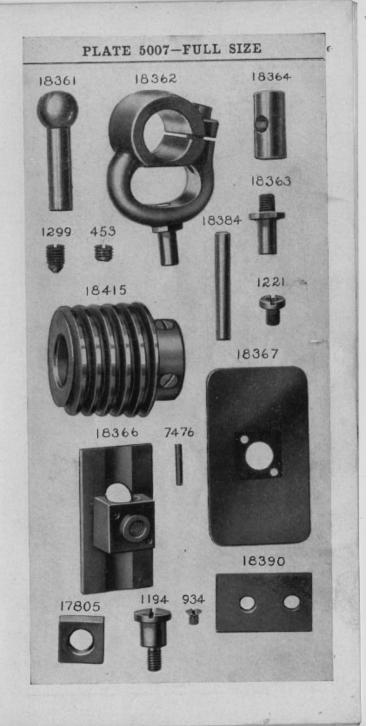
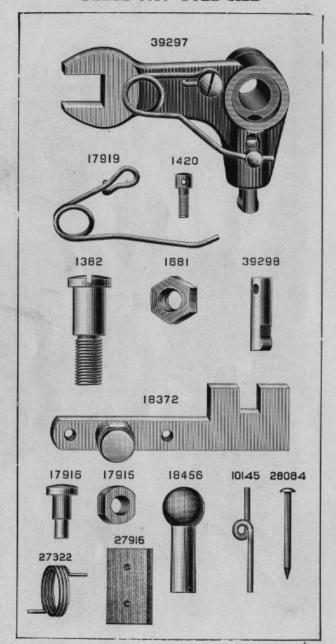


PLATE 5016-FULL SIZE



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PLATE 5017-FULL SIZE

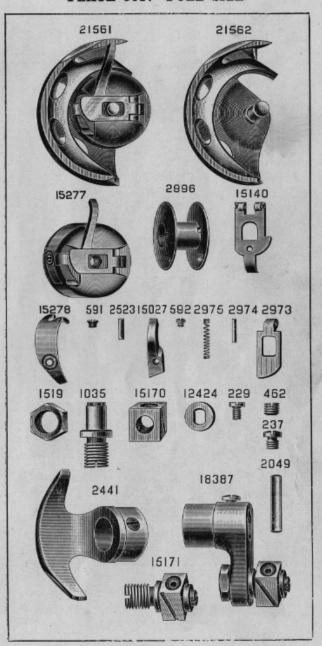
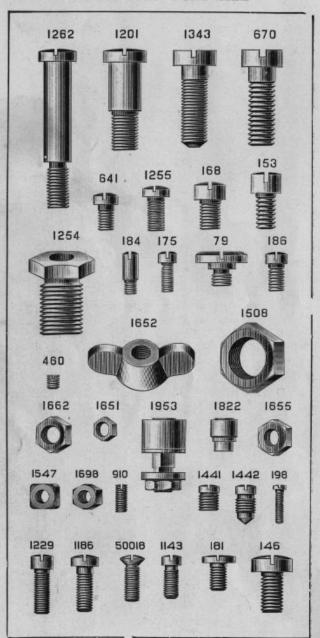
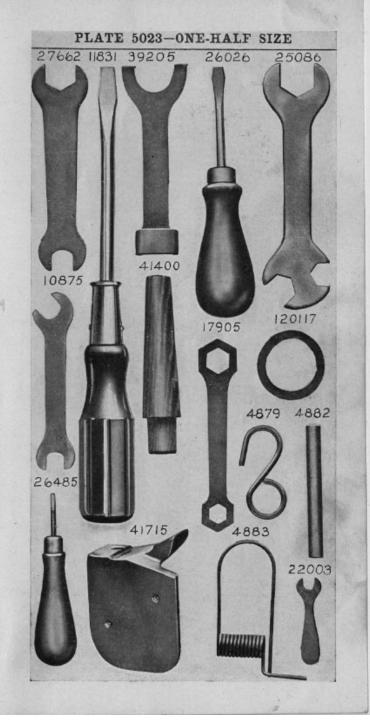


PLATE 5021-FULL SIZE





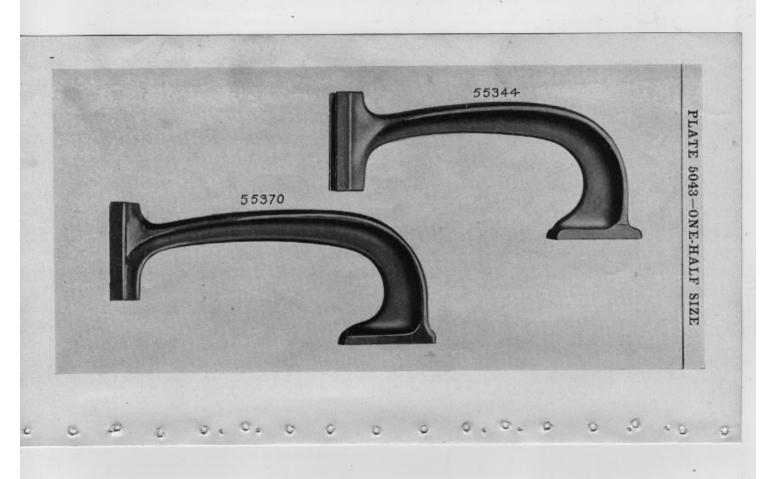


PLATE 5044-ONE-FOURTH SIZE

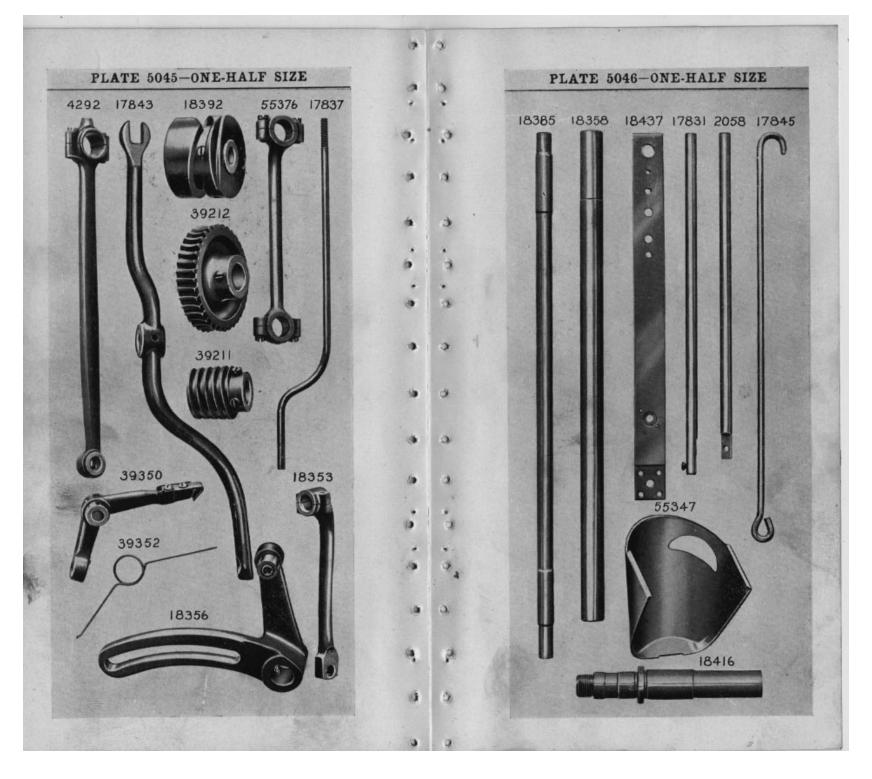


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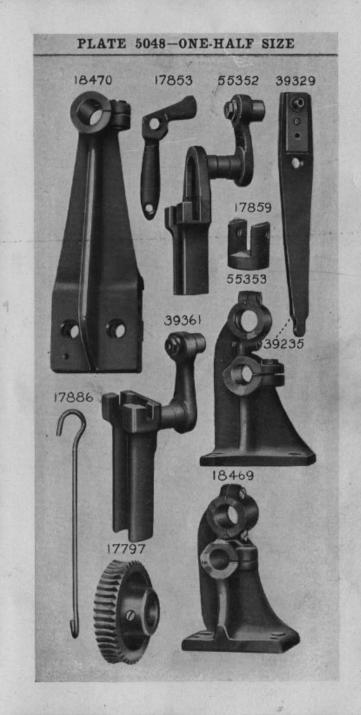


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PLATE 5526-ONE-HALF SIZE

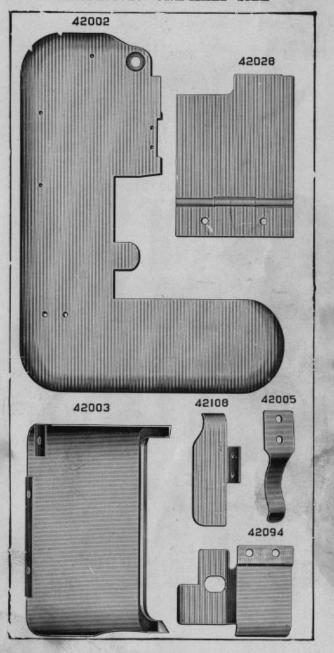


PLATE 5529-FULL SIZE

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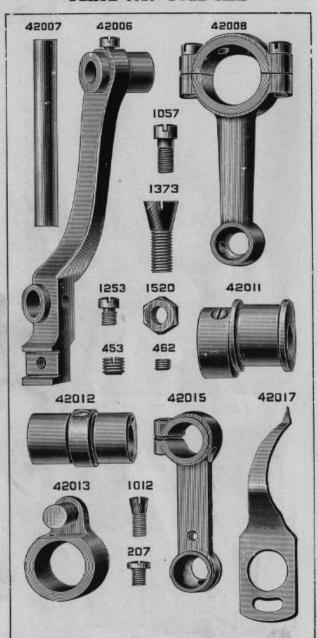


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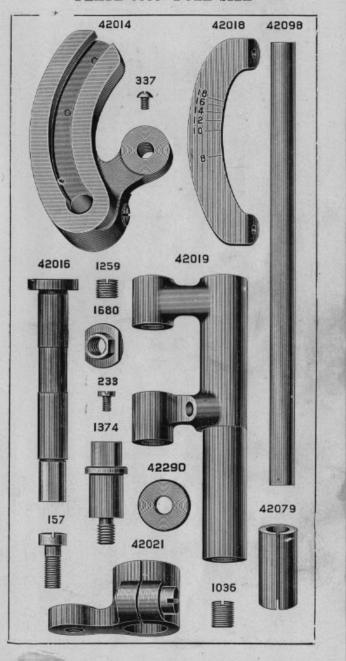


PLATE 5544-FULL SIZE 42115 171 187 42066 42253

PLATE 5545--FULL SIZE

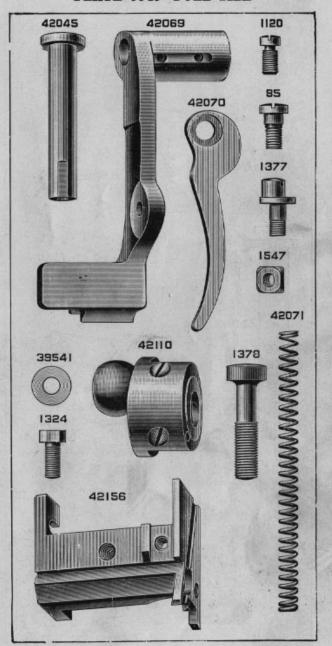


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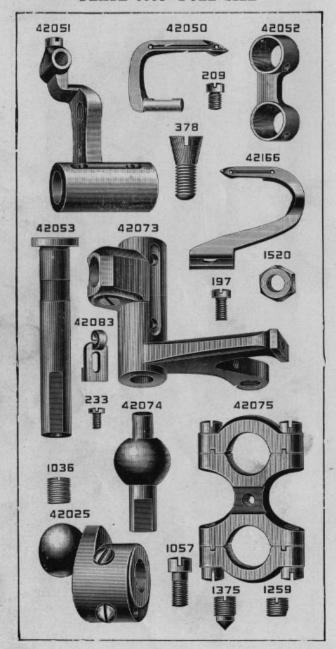


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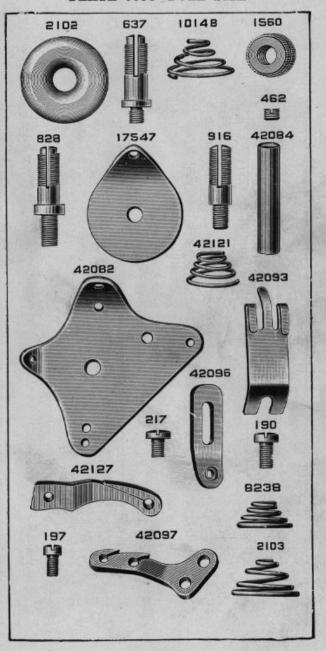


PLATE 5563-FULL SIZE

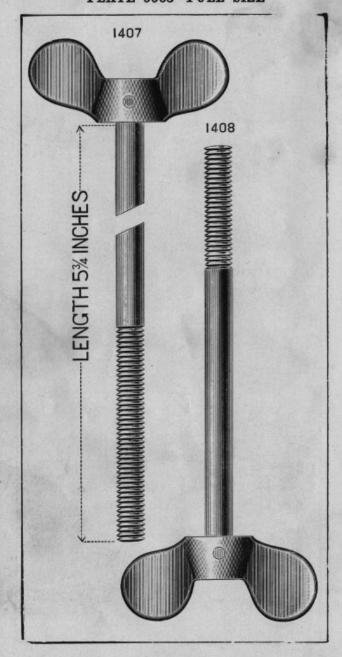
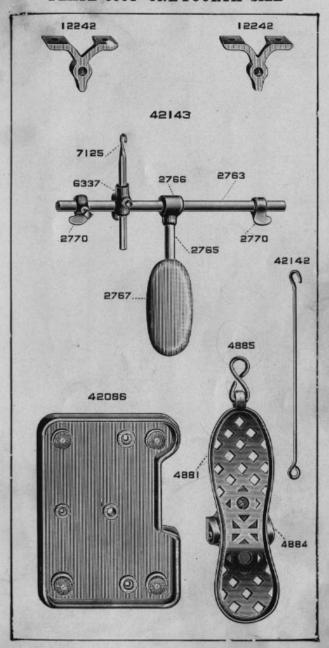
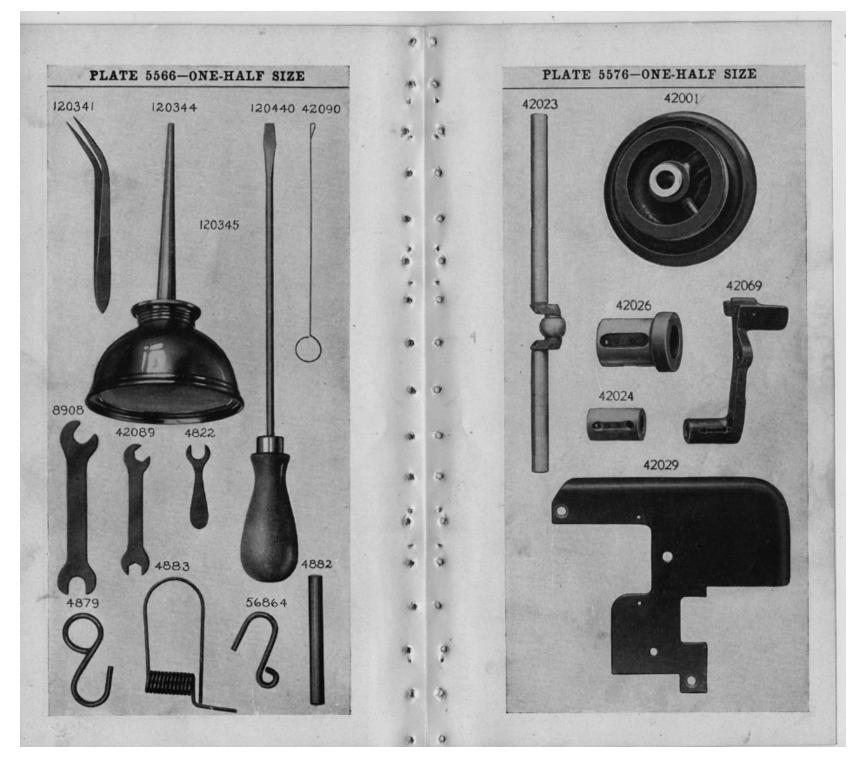
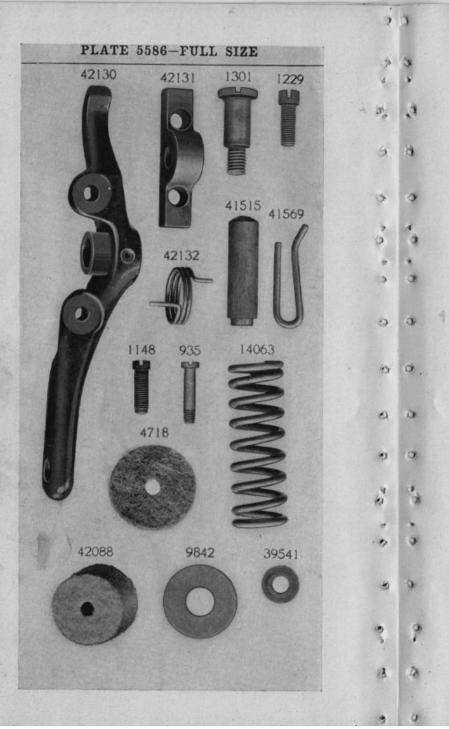
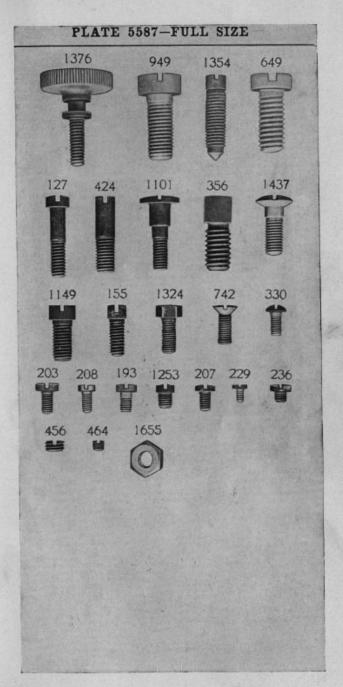


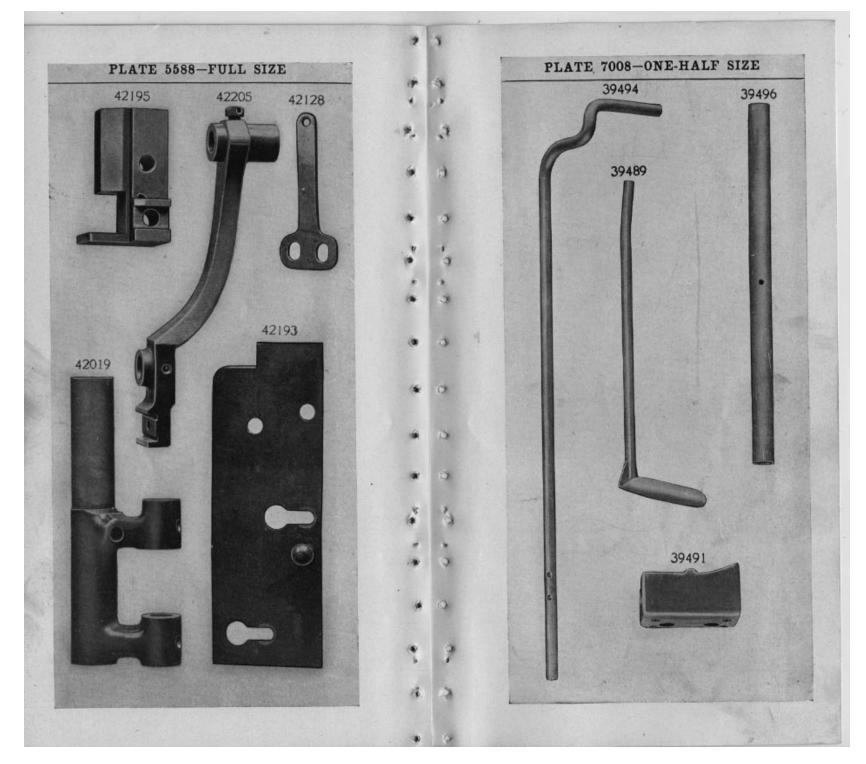
PLATE 5564-ONE-FOURTH SIZE

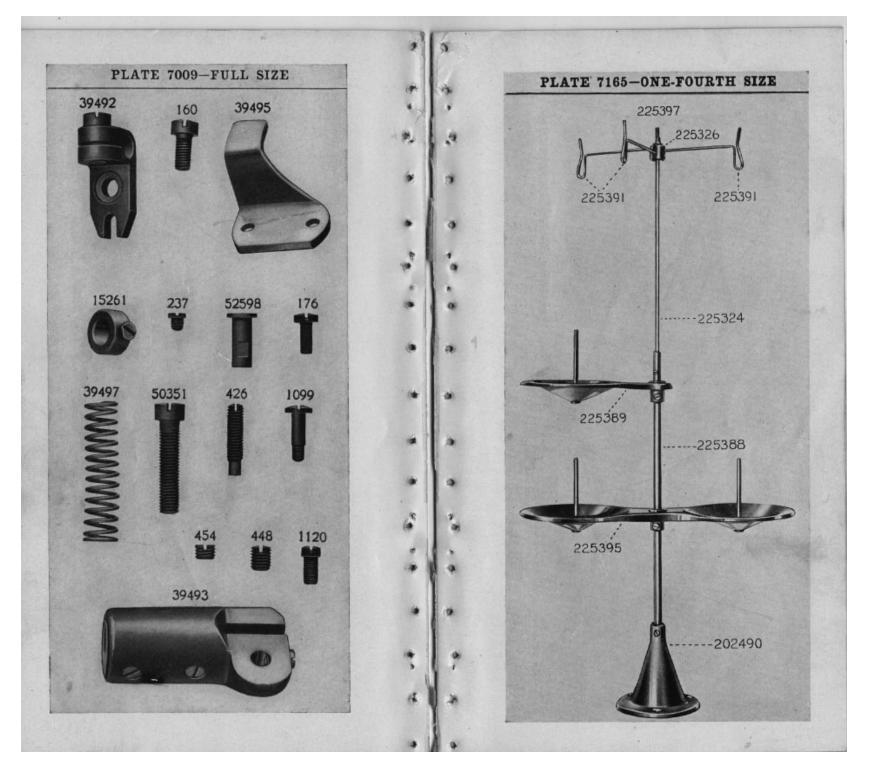


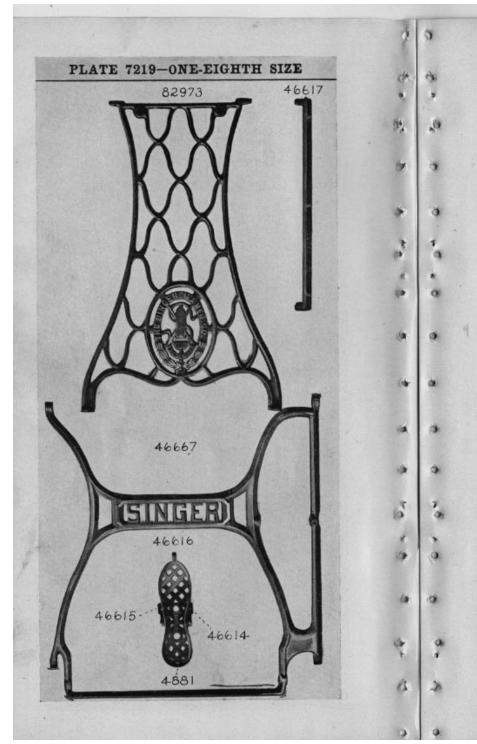


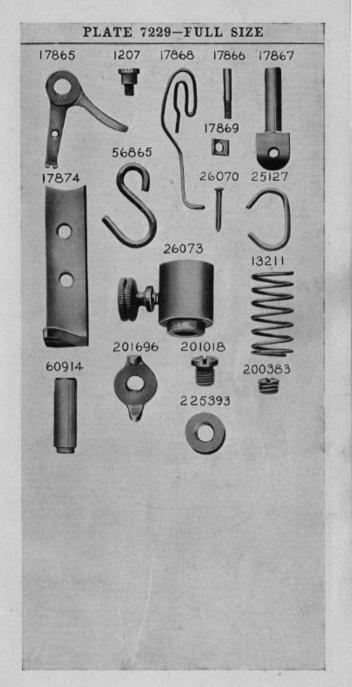


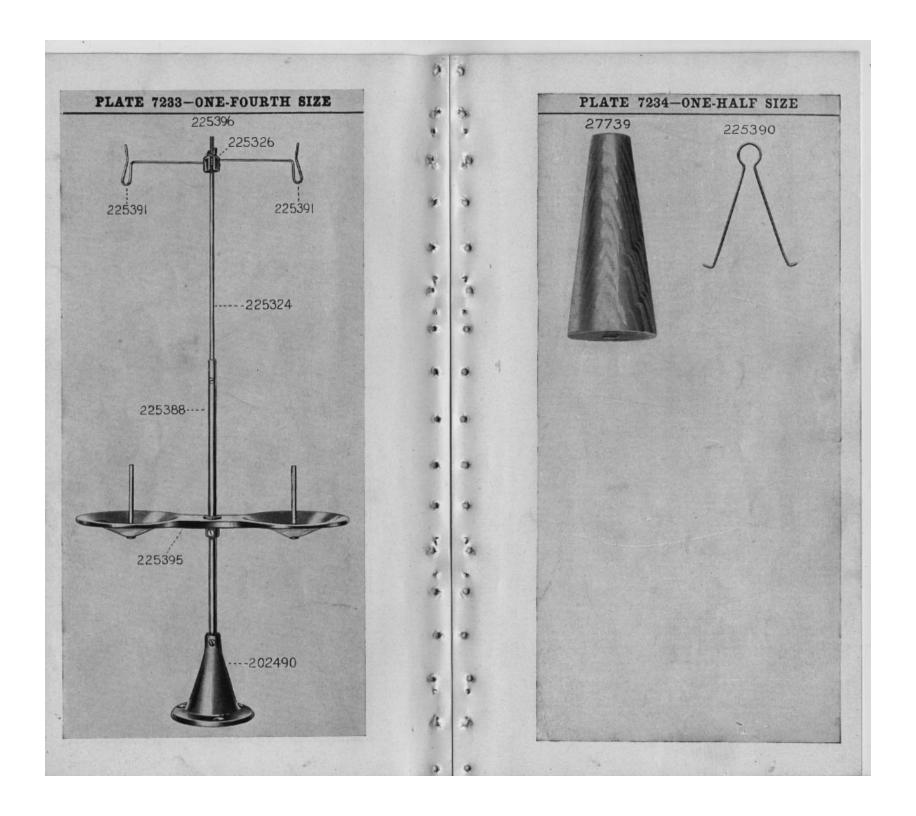


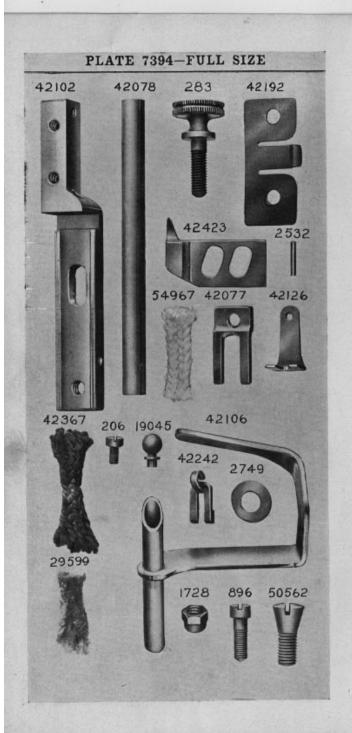


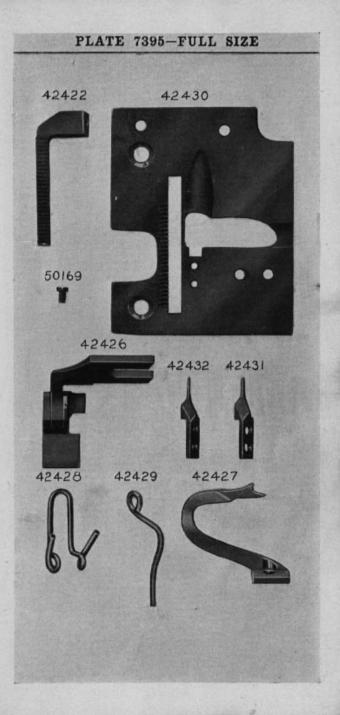


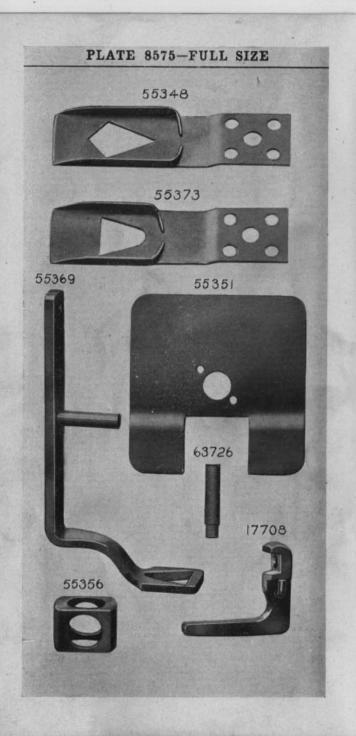












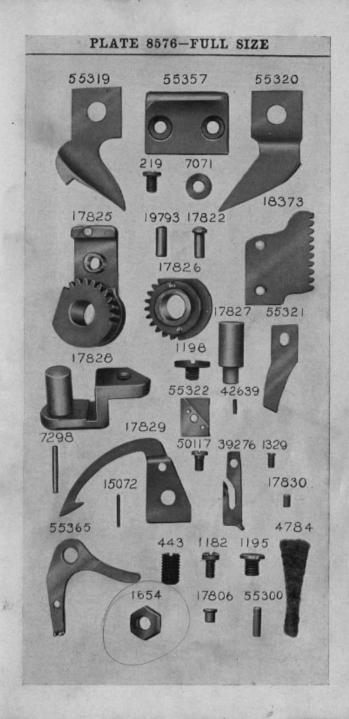
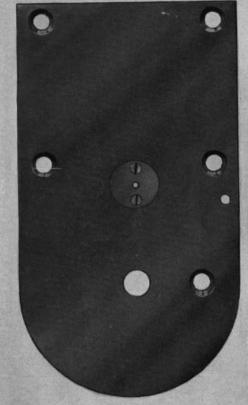


PLATE 8577-FULL SIZE

PLATE 8578-FULL SIZE



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PLATE 8579-ONE-HALF SIZE

PLATE 8580-FULL SIZE

