# Singer 146-1 Singer 146-30 Singer 146-13 Singer 146-71

ril, 1935

# LIST of PARTS



# MACHINES Nos. 146-1, 146-30, 146-31 and 146-71

THE SINGER MANUFACTURING COMPANY

#### 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, Nickel Plated and Buffed B—Polished, Nickel Plated and Buffed C—Hardened Only

D-Polished Only E-Soft, Not Polished

F-Hardened and Polished

H-Blued

J-Nickel Plated Only

K-Hardened and Nickel Plated

L—Brass Plated M—Oxidized

N-Japanned, Dull

P-Japanned, Bright

R—Merlized

T-Copper Plated

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

T. B.—Copper and Nickel Plated and Polished

T. J.—Copper and Nickel Plated Only

T. K.—Hardened, Copper and Nickel Plated

T. M.—Copper Plated and Oxidized T. L-Copper and Brass Plated

U-Zinc Plated

V .- Silver Plated

W-Polished and Nickel Plated

Y-Black Nickel Plated Only

Z—Chromium Plated

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

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

In this series:

1 to 1500, 50001 to 51500 and 140001 to 142000 are Screw Numbers 1501 to 1800 and 51501 to 51800 are Nut Numbers 1801 to 2000 and 51801 to 52000 are Roller Numbers 2001 to 50000 and 52001 to 190000 are Sewing Machine Parts, 190001 and upward are numbers of Electrical Parts.

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

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

#### LIST OF PARTS COMPLETE FAR

# MACHINE No. 146-1

BALANCE WHEEL No. 124001

DIAMETER OF BELT GROOVE 21/8 INCHES MACHINE HEAD ONLY

BY A BATE

NO.	PLATE	NAME
124170		Arm, upper and lower (solid) with 15404
		and two 15405
17669	9401	Arm Oil Tube, for intermediate bearing
17670	9401	" " lower bearing
15783	9443	" " "
11119	9401	" " " 15783 with 52045, for oil-
11110		ing 49101
58030	9401	Arm Oil Tube with 52045 and 54897, for
00000		oiling 58033
54897	9401	Arm Oil Tube Oil Cup
52045	9401	" " Packing (wick)
49156	21504	" Rock Shaft
49004	9401	" " Bushing (intermediate)
4480		
4100	, 6101	Set Screw
49003	9401	Arm Rock Shaft Bushing (upper)
1460		" " " Set Screw
17671	9401	" " Collar with two
11011	0.02	443c
1430	9401	Arm Rock Shaft Bushing Collar Set
7.400	, 0102	Screw
49262	21501	Arm Rock Shaft Crank (lower) with
4.7202	21001	50282E and 50457c
502821	e 9447	Arm Rock Shaft Crank (lower) Position
002021		Screw
504576	9447	Arm Rock Shaft Crank (lower) Set Screw
49261	21501	" " (upper) with
43201	21001	50282E and 50457c
50282	е 9447	Arm Rock Shaft Crank (upper) Position
00202	r Jari	Screw
50457	g <b>9447</b>	Arm Rock Shaft Crank (upper) Set Screw
49005	21501	" " Flanged Bushing (lower)
430		" " " " " "
450	i aroi	Set Screw
49084	21501	Arm Rock Shaft Oil Cover
49084		" " " Screw
199	i arron	

		1	
NO. PLATE	NAME	NO. PLATE	NAME
17672 21504	4 Arm Rotary Shaft	49020 21508	Face Plate
*58059	- " " " 17672 with 58033	193 <sub>F</sub> 9430	" " Screw
58031 21501	l " " Bushing (lower)	17683 9407	Feed Bar with 220j and 457c
435c 9431	L'" " " " Set	17684 9407	" " Hinge Pin
	Screw	27.00.2	" " Set Screw
58032 21501	Arm Rotary Shaft Flanged Bushing		" Connecting Rod with 2653, 4784
00002 21001	(intermediate)	17685 - 21504	and two 896E
45055 0445		000 0400	Feed Connecting Rod Cap Screw
17675 9447		896E 9430	" " Oil Pad (felt)
	(intermediate) Oil Hole Plug	4784 9407	" " " Pin
42366 9447	' Arm Rotary Shaft Flanged Bushing	2653 - 9407	
	(intermediate) Oil Pad (short) braided	17686 - 21502	Feed Dog, 14 teeth (10 teeth to the inch)
	cotton		for 58025 and 58028
446c 9431	Arm Rotary Shaft Flanged Bushing	172c 9430	Feed Dog Screw
1100 0101	(intermediate) Set Screw	220j 9407	" " Stop Screw
49012 21504	Arm Rotary Shaft Flanged Bushing	17687 9437	" Eccentric with two 1259c
49012 21004	(upper) with 49013 and 49093	1259c 9447	" Set Screw
49093 9447		17688 - 9437	" Lifting Eccentric with two 1259c
49093 9447	,	58054 9437	" " Connection with
. 40010 0407	(upper) Oil Pad (long) braided cotton		457c, 2653, 4784 and two 1057E
49013 9407		1057E 9447	Feed Lifting Eccentric Connection Cap
##0 0400	(upper) Oil Pad (short) braided cotton		Screw
159F 9430	\$ ("FF-) is ea 41,	49030 21501	Feed Lifting Eccentric Connection Hinge
449c 9447	" " (lower) Bearing Oil	1	Pin
	Hole Plug Screw	457c 9407	Feed Lifting Eccentric Connection Hinge
144р 9430		.	Pin Set Screw
17676 21508		4784 9107	Feed Lifting Eccentric Connection Oil
2269 9407	" " " Stop Pin		Pad (felt)
286p 9431	" " " Thumb Screw	2653 9407	Feed Lifting Eccentric Connection Oil
17677 21508	" " " (right)	,	Pad Pin
2269 9407	" " " Stop Pin	1050 0447	
286р 9431	" " " Thumb Screw	1259c 9447	Feed Lifting Eccentric Set Screw
124001 21508	Balance Wheel and Pulley (tight) 21/8 in.	50245c 9431	" Regulating Screw Stud " " Nut
,	diam., with two 430c	1731c 9431	" " Sleeve
430c 9431	Balance Wheel Set Screw	17690 21501	Diceve
17679 9407	" Washer	12000 21501	рюрт ш
58023 21511	Cloth Plate	49033 21504	TOOCK DIGHT
58024 21511	Cloth Plate complete, Nos. 49054, 58001,	124228 ——	Feed Rock Shaft complete, Nos. 49033
**	58002, 58023 and two 2261	•	and 124227
128p 9430	Cloth Plate Screw (lower)	124227 21504	Feed Rock Shaft Crank with 12000 and
158r 9430	" " (upper)	1	two 1177E
	(upper),	1177E 9447	Feed Rock Shaft Crank Clamping Screw
58033 21504	Crank Connecting Rod with 896E, 49109	17693 21504	" " Hinge Pin
•	and two 145E	1508ј 9431	" " " " Nut
896E · 9430	Crank Connecting Rod Adjusting Screw	622c 9431	" " " Screw Bear-
49109 9407	" " Washer	1	ing
145E 9430	" Cap Screw	1508j 9431	Feed Rock Shaft Hinge Pin Screw Bear-
- 50244c 9430	" " Hinge Screw		ing Nut
1513ј 9431	" " " " Nut	27398 9447	Feed Rock Shaft Washer
	•		

				i i		•
	NO.	PLATE	NAME	NO.	PLATE	NAME
	49036		Looper (double thread) with 590s and	124177	9414	Looper Carrier Pitman Head (upper),
,	•		49080	ŀ		Nos. 50070c, 124176 and two 175E
	17694	21508	Looper Bell Crank	49040	9414	Looper Carrier Pitman Rod
	49039	9437	" " " Hinge Stud	1708		" " " Nut(lower)
	448c	9431	" " " Set Screw	1709		" " " (upper)
	17695	21508	" " Pitman with two each	4904;		" " Washer (fibre)
			175E and 1057E	12417		" Rock Shaft
	50070c	9414	Looper Bell Crank Pitman Ball Screw	1141		" " Collar with
			Stud (back)	• • • • • • • • • • • • • • • • • • • •		453c
	1636c	9431	Looper Bell Crank Pitman Ball Screw	459	c 9414	Looper Carrier Rock Shaft Collar Set
			Stud (back) Nut			Screw
	50246c	9431	Looper Bell Crank Pitman Ball Screw	12417	9414	Looper Carrier Rock Shaft Crank (lower)
			Stud (front)			with 156c, 157p and 443c
	$1619_{\rm J}$	9431	Looper Bell Crank Pitman Ball Screw	150	ic 9414	Looper Carrier Rock Shaft Crank (lower)
			Stud (front) Nut			Position Screw
	175E	9430	Looper Bell Crank Pitman Cap (back)	41	3c 9401	Looper Carrier Rock Shaft Crank (lower)
			Screw			Set Screw
	1057E	9447	Looper Bell Crank Pitman Cap (front)	4904	9414	Looper Carrier Rock Shaft Crank (upper)
			Screw			forked, with 50083c
	49044	9437	Looper Carrier with 4784 and two each	5008	3c 9414	Looper Carrier Rock Shaft Crank (upper)
			175E, 1147c and 59019			forked, Set Screw
	175E	9430	Looper Carrier Clamping Screw	1 4904	9414	Looper Carrier Rock Shaft Crank (upper)
	59019	9437	" " Gib			Slide Block
	38440	-9437	" " Hinge Pin	4905	1 9449	
	157p	9430	" " Clamping	125	o 9447)	" Set Screw
			Screw	5800	1 21511	" Gate with 735c
	4784	9407	Looper Carrier Oil Pad (felt)	5800	2 9449	" " Hinge Pin
	124174	9414	Looper Carrier Pitman complete, Nos.	. 73	5c 9431	" " Set Screw
	•		1708J, 1709J, 49046, 49088 and 124177	4905	1 9449	" Lock Spring
	· 50070c	9414	Looper Carrier Pitman Ball Screw Stud	22	ы 9430	
			(upper)	114		" Set Screw
	1519л	9431	Looper Carrier Pitman Ball Screw Stud	4908		" Thread Guard
			(upper) Nut	59	Os 9437	" " Screw
	46237	9414	Looper Carrier Pitman Ball Stud (lower)	5805	2 - 9449	
	1147c	9430	ū u u u u u	4905		
			Set Screw	43		" " Set Screw
	171E	9430	Looper Carrier Pitman Cap (lower)	5803		
	21,22		Screw	113		
	175E	0430	Looper Carrier Pitman Cap (upper)	*4910		
	1106	2200	Screw	4916	7 —	" " " 49101 with
	*40000					49057 and 49268
	*49086		Looper Carrier Pitman End Bearing	4905		
			(lower)	151	7л 9431	
*	124176		Looper Carrier Pitman End Bearing	i		Nut
			(upper)	4926		
	49088	9414	Looper Carrier Pitman Head (lower),	145	4E <b>9447</b>	
			Nos. 46237, 49086 and two 171E			Screw

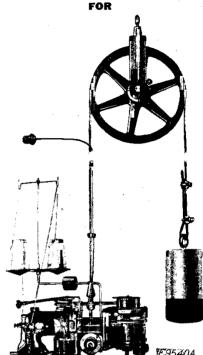
NO.	PLATE	NAME	1	NO. PL	A'TE	NAME
1629c	9447	Needle Clamping Nut		210.	446	Presser Foot Toe Hinge Stud
58036 2	21508	Oil Pipe	1	0000	446	" " Set Screw
58037		" " 58036 with 54897, 58038 and		.,002	446	" " Spring
		58039, for Arm Rotary Shaft Lower		0000	446	Presser Foot (hinged) complete, Nos.
		Bearing		137090 9	. 110	50087 <i>J</i> , 58004, 58005, 58007, 58008
58038	9449	Oil Pipe Holder				and 137089
54897	9401	" " Oil Cup				Presser Foot Screw
58039	9447	" " Packing (braided cotton)				Presser 1 001 Screw Thumb Screw
	9447	" " Set Screw		574w 9		Pressure Regulating Thumb Screw " " Lock
449c		" Tube for 58041		1539w S	943 <b>1</b>	
58040	9449	" " 58040 with 58044 and 58045,				Nut
58041		58040 With 55044 and 56040,		124002 2	1505	Pulley (loose) 21/8 in. diam
		for oiling 49049 and 49051			9450	Tension (looper thread) Disc
58042	9449	Oil Tube for 58043			9450	" " Regulating
58043		" " 58042 with 58044 and 58045,		10000		Thumb Nut
		for Arm Rotary Shaft Intermediate		916c	9450	Tension (looper thread) Screw Stud
		Bearing		44209	3100	" " " " " 916c
58044	9449	Oil Tube Connection with two 198J		44209		with 1560c
198л	9447	" " Cap Screw		10110	9450	Tension (looper thread) Spring
58045	9447	" " Packing (braided cotton)		10110		" " Thread Guide
49059		Presser Bar		17547	9450	(single)
	21503	" " Bushing (back)				Tension (needle thread) Disc
		" " Set Screw"		2102	9450	" " Regulating
	9431	" " (front)		1560c	9450	Thumb Nut
	21501	" " Set Screw	1			Tension (needle thread) Screw Stud
1133E	9431		!	916c	9450	Tension (needle thread) Serew State
58046	9446	Lill OCI	i	44209		
212 в	9430	Cap Screm	į.			with 1560c
58047	9446	" " " Hinge Stud	:	13710	9450	Tension (needle thread) Spring
453c	9414	" " Set Screw		17547	9450	
49065	9446	" Lifting Bracket with 453c				(single)
		and 892r	i	58010	9450	Thread Cutting Blade (inside) with 1933
892F	9447	Presser Bar Lifting Bracket Adjusting	1	58011	9450	" " (outside) with 1933
		Screw	1	50247c	9431	" " Hinge Screw
453c	9414	Presser Bar Lifting Bracket Set Screw		1732н		. " " " Nut
58048	9446	" " Link,		1933	9450	// W Dollar and Stud
212ъ	9430	" " Cap Screw	1	17622	9450	" " Spring
1253c	9447	" " " HingeScrewStud	1.		9100	" Lever 124256 with 58013
58049	9446	" " " Spring		58012		and two 1611.
1241E	9447	" " " " Screw Stud	.	104050	0151	1 C U Lorror for 58012 and
	21508	" " Spring (flat)	1	124256	21514	146-30 Machine
		" " Stud				Thread Cutting I ever Extension
38468	9446	" Foot Finger Guard		58013		4 4 10 10 10 1
137088	9446	" " Screw	:	124257	2151	i "
227л	9446	DCIE	1			124258 1 Thread Cutting Lever Extension 124257
58004		1 1200		124258	2151	with 13375, for 146-30 Machine
50087л	9446	Time Colon				with 13375, for 140-50 machine
58005		" "Shank	1	161;	943	O Thread Cutting Lever Extension Screw  ""  "Handle
137089		" Toe with 227, 906E and		13375	2151	1 " " "
		137088				(wood) for 124258

	NO.	PLATE	;		NAMI	6		
1	24171	9450	Thread	l Cuttii	ng Leve	r Hine	e Stud	1
	4480	9431	"	"	"	**	"	Se
			Scre	w	• • • • • • •			~ 6
	58014	9450	Thread	l Cuttin	ag Leve	r Plate	Р.	
	1720	9430	"	**	"	"	Screv	w
]	19510	9450	. "	"	**		ıg	
	170 <sub>J</sub>	9450	46	"	"	~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~	Screv	v Sta
4	19071	9446	"	(Ioope	r) Eyele	et.	20101	v Dou
	172c	9430	"	44	"		ew	
4	19072	9450	"	- 44	Take			
	190 <sub>J</sub>	9430	"	"		S	erew	• • • •
4	9073	9446	"	(need)	e) Cont	roller	MCW	• • • •
	974 <sub>F</sub>	9446	"	"	4		linge	
	914г	9430	"	u			crew.	
3	9541	9446	44	44	4			ashe
4	9075	9446	"	"	Toko		ith 457	
	457c	9407	44		14		t Scre	
5	8025		Throat	Plate	(large	noodl	o bole	W
			17686	}	·····	neeur	e nore	9) 101
5	8028	21502	Throat	Plata	(small	noodl	o hole	
			17686	1 2000		neeur	e noie	) IOI
	691r	9431	Throat	Plate S	erour (le	araa)	••••	• • • • •
	402F		"	* 12.00 K	" (m	arge)	••••	
*1.	5404		Trade N	Tork	(8)	шан).		• • • • •
	5405		"	" R	irrot	• • • • •		• • • • •
_				11	ivet			· · · · ·

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

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

LIST OF PARTS COMPLETE



## MACHINE No. 146-30

FOR CLOSING BAGS AFTER THEY ARE FILLED. THIS IS A SWINGING OUTFIT AND INCLUDES MACHINE HEAD, MACHINE
AND MOTOR BRACKET, CABLE WITH EYELETS, CLAMPS,
SHEAVE, COUNTERWEIGHT AND ELECTRIC TRANSMITTER
MOTOR. THE SEWING MACHINE AND MOTOR ARE BOLTED
TO A BRACKET THAT IS ATTACHED TO ONE END OF A
STEEL CABLE WHICH PASSES OVER A SHEAVE SUSPENDED FROM THE CEILING. A COUNTERWEIGHT IS ATTACHED
TO THE OPPOSITE END SO THAT THE OPERATOR MAY
EASILY RAISE AND LOWER THE MACHINE FOR BAGS OF
DIFFERENT HEIGHTS.

Note: The 146-1 Machine Head is used on this outfit. The motor required to operate this machine is of the continuously running electrical transmitter type. When placing orders, the voltage must be given for S. D. Motors and the voltage, cycles and phase for S. A. Motors.

NO.

50706R

1795R

9082

137127

124270

898622

124271

124272

124287

350c

Eyebolt.....

PARTS FOR MACHINE No. 146-30

NAME

Machine Belt, 1/4 in. diam., 351/2 in.

long, with 25128.....

Screw.....

and two 882c.....

Machine Belt Shifter Bracket Hinge Stud

Set Screw....

Machine Belt Shifter Bracket Spring

"

21514 Machine Belt Shifter Bracket with 858c

44

Screw.....

Hook.....

Shifter Belt Guide Pin.

44

.. .. ..

"

16

NO.

124285

124292

25128

41441

124259

54640

124260

124261

124282

124299

\*124284

443c

554c

858c

124263 21509

731R 9444

435c

126573

124264

1178E

20437

27878

124300

124266

124267

124268

\*124269

124293

\*124283

333 R

882c

PLATE

21514

9444

9445

9445

9444

9444

9401

9445.

9445

9445

9444

21512

9431

9445

21509

9444

9445

9444

21512

21509

21510

21510 Machine Counterbalance Cable Sheave 124289 Hanger Evebolt..... 9445 Machine Counterbalance Cable Sheave 1672 RHanger Eyebolt Nut..... 124290 9445 Machine Counterbalance Cable Sheave Hanger Evebolt Nut Lock Washer... 344c9444 Machine Counterbalance Cable Sheave Hanger Eyebolt Set Screw..... 21515 Machine Counterbalance Cable Sheave Hinge Pin.... 51287c9444 Machine Counterbalance Cable Sheave Hinge Pin Set Screw..... 21509 Machine Counterbalance Cable Sheave 124275 Roller Bearing.... 12427621510 Machine Counterbalance Eyebolt..... Weight Equalizer (10 lbs.)..... Note: When ordering Weight Equalizer, amount required must be stated in lbs. or ozs. 50340R 9444 Machine Screw (long) to fasten machine to bracket..... 9281R 9445 Machine Screw (long) Washer..... 115ы 9444 (short) to fasten machine to bracket..... 18849 - 2

NAME

PLATE

NO.

# LIST OF PARTS COMPLETE FOR

#### **MACHINE No. 146-71**

MAKES THREE TO SIX STITCHES TO THE INCH. FITTED WITH CHAIN CUTTING SHEARS. BALANCE WHEEL No. 137031-DIAMETER OF BELT GROOVE 27/8 INCHES.

#### MACHINE READ ONLY

	MACHINE READ UNLY						
NO.	PLATE	NAME					
*137003		Arm, upper and lower (solid) with 15404					
		and two 15405					
137004	9441	Arm Back Cover					
1095г	9442	" " Screw					
51333յ	9442	" Oil Plug Screw					
137005	9443	" Tube, for oiling Arm Rock Shaft					
		Intermediate Bearing					
137006	9443	Arm Oil Tube, for oiling Arm Rock Shaft					
		Front Bearing					
*137007		Arm Oil Tube (tube only) for 137008					
137008	9443	" " 137007 with 137009, for					
		oiling Arm Rotary Shaft Back Bearing					
*137009		Arm Oil Tube Oil Cup for 137008					
137010	9443	" " for oiling Arm Rotary					
		Shaft Intermediate Bearing					
137011	9443	Arm Oil Tube Extension for 137010					
52150	9448	" " " Oil Wick (braided cotton)					
		for 137010					
137012	21505	Arm Rock Shaft with 624c					
137013		10/012 WIMI 1000/0					
*130708		Dusning (back)					
130709		190/08					
	0.440	with 130911					
130911	9448	Arm Rock Shaft Bushing (back) Oil					
4.40	0.401	Wick (braided cotton)					
443c	9401	Arm Rock Shaft Bushing (back) Set					
10000	0404	Screw.					
130907	9434	Arm Rock Shaft Bushing (intermediate)					
130908		130907 with 130912					
100010	9448	Arm Rock Shaft Bushing (intermediate)					
130912	9448	Oil Wick (braided cotton)					
430c	9431	Arm Rock Shaft Bushing (intermediate)					
400C	9491	Set Screw					
*137014	9434	Arm Rock Shaft Crank (back) Ball					
191014	TUT	Bearing (solid) with 1177E					
		TOWNING (BOHA) MINH TELENO					

Arm Rock Shaft Crank (back) 137014 137015 with 131089 and 137016..... 9447 Arm Rock Shaft Crank (back) Clamping 1177E Screw..... 9439 Arm Rock Shaft Crank (back) Oil Plug 137016 (brass)..... Arm Rock Shaft Crank (back) Oil Pad 9448 131089 (wick)..... Arm Rock Shaft Crank (back) Pin.... 40025 9439 9434 Flanged Bushing (front) 130909 " 130910 130909 with 130912..... 9448 Arm Rock Shaft Flanged Bushing (front) 130912 Oil Wick (braided cotton)...... 9401 Arm Rock Shaft Flanged Bushing (front) 443cSet Screw..... 9448 Arm Rock Shaft Oil Wick (braided 137017 cotton).... 137018 21505 Arm Rotary Shaft..... 137018 with 137028 137019 " Bushing (front).... \*137020 9434 46 " 137020 137021 with 130713..... 137022 9439 Arm Rotary Shaft Bushing (front) Oil Plug...... Arm Rotary Shaft Bushing (front) Oil 130713 9448 Wick (braided cotton)..... 9431 Arm Rotary Shaft Bushing (front) Set 430c \*137023 ArmRotaryShaftBushing(intermediate) 9434 44 " 137024 137023 with 130713..... ArmRotaryShaftBushing(intermediate) 130713 9448 Oil Wick (braided cotton)..... 9431 ArmRotaryShaftBushing(intermediate) 448cSet Screw..... 21505 ArmRotaryShaftFlangedBushing(back) \*137025 " " " 137026 137025 with 137027..... 137027 9448 ArmRotaryShaftFlangedBushing(back) Oil Wick (braided cotton)..... 159F9430 ArmRotaryShaftFlangedBushing(back) Screw..... 137028 Arm Rotary Shaft Oil Sling with 137029. 9434 " " Oil Tube. . . . 137029 9434 144 p 9430 Screw...... 137030 21506 Side Cover.....

. 20	PARIS	FOR MACHINE No. 140-14	:		
			NO. PLA	TE	NAME
NO.	PLATE	NAME	137044 - 215		Feed Regulator with two 1177E
1761	9442	Arm Side Cover Screw (lower)	1177E 94	<b>L47</b>	" Clamping Screw
190л	9430	" " " (upper)	137045 21 <b>5</b>		" Rocking Frame
137031	21505	Balance Wheel and Pulley (tight) 21/8	137046 —		" " 137045 with 137044
		in. diam., with two 430c	137047 215	506	" " Hinge Pin
130870	21506	Balance Wheel and Pulley (tight) Cover	137048 —		" " " 137047
4300	9431	" " " " Set Screw	131040		with 1508j
17679	9407	" " " Washer	1508л 94	131 ]	Feed Rocking Frame Hinge Pin Nut
137032	21511	Cloth Plate		442	" " " Screw
137033	21511	Cloth Plate complete, Nos. 49054, 58002,	514100 94	112	Bushing
101000	21011	137032, 137064 and two 226J	1500, 04	421 ·	Feed Rocking Frame Hinge Pin Screw
50085E	9442	Cloth Plate Screw (back)	1508j 94	±31 .	Bushing Nut
966r		" " (front)		447	Feed Rocking Frame Washer
137034		Crank Connecting Rod with two each	21.7	447	Looper, for double thread (heavy thread)
137034	21300	145E and 896E	4		" " " (light thread).
	0.400	Crank Connecting Rod Cap (lower)	****	436	(18.11 01.11 01.17
145F	9430		Note:	No.	137050 is sent with this Machine
	- 100	Screw		unles	s otherwise stated on order.
896E	9430	Crank Connecting Rod Cap (upper)	i		
•		Screw			Looper Bell Crank with 1147c
130737	21506	Face Plate		439	Bull Staat.
193r		" Screw	1147c 9	430	be beien.
137037	21506	Feed Bar with 457c	137053 <b>9</b>	438	" Connection with two
130738	9439	" " Hinge Pin	i		each 127E and 171E
4570	9407	" " Set Screw	137054 -		Looper Bell Crank Connection 137053
137038	21506	" Connecting Rod with 137091 and	•		with 175E, 137052 and 137057
		two 896E	127E 9	442	Looper Bell Crank Connection Cap
896ı	9430	Feed Connecting Rod Cap Screw			(large) Screw
137040	9443	" " " Oil Tube	171E 9	1420	Looper Bell Crank Connection Cap
52150	9448	" " " " Oil Wick	. IIIE 0	7100	(small) Screw
		(braided cotton)		0.404	Looper Bell Crank Connection Guide
137091	9448	Feed Connecting Rod Oil Wick (braided			" " " " " Screw
20		cotton)		9430	" " Eccentric with two
137078	21502	Feed Dog, 10 teeth (10 teeth to the inch)	137058 9	9436	1300011110 111111
101010	21002	for 137085	i i		1036c
172	9430	Feed Dog Screw	137059 9	9436	Looper Bell Crank Eccentric Oil Sling
137042	9436	" Eccentric with two 1036c	137060 9	9443	u u u u u
1036		" Set Screw			Oil Tube
137043	9436	" Lifting Cam with two 1036c	137011 9	9443	Looper Bell Crank Eccentric Oil Sling
	9436	" " Connection with 457c	101011	0110	Oil Tube Extension.
130834	9450	and two 175E	1	0440	Looper Bell Crank Eccentric Oil Sling
	0.400	Feed Lifting Cam Connection Cap Screw	52150	9448	Oil Tube Oil Wick (braided cotton)
175		" " Hinge Pin	•		
130836	9439	" " " " " " "	1036 <b>c</b>	9442	Looper Bell Crank Eccentric Set Screw
457c	9407		137061 2	21507	" " Hinge Stud
		Set Screw	137062	9443	" " " Oil Tube.
1036		Feed Lifting Cam Set Screw	448c	9431	" " Set Screw
50086		" Regulating Screw Stud	130756	9435	" Carrier with 130760 and three
1714					1147c
49031	9434	" " Sleeve			

" Washer....

9434

49032

			PARTS FOR MACHINE No. 140-71
NO.	PLATE	NAME	
130757	9435	<del>-</del>	NAME 137066 9439 Looper and Thread (under) Take-up
		175E	137066 9439 Looper and Thread (under) Take-up
130873		Looper Carrier Connection 130757 with	Eccentric Locating Pin
		130956 and 130970	130841 21507 Needle Bar (hollow)
130970	9439	Looper Carrier Connection Ball Screw	130842 9438 " " Bushing (lower)
	0 = 0 0	Stud (right) Eccentric	435E 9431 " " " Set Screw
1518л	9439	Looper Carrier Connection Ball Screw	137067 9438 " " (upper)
20200	0100	Stud (wight) Next	1133E 9431 " " " Set Screw
49043	9447	Stud (right) Nut	130769 9435 " " Connecting Link
10010	7771	The Commodition Date Colon	130875 — " " " " 130769 with
130956	0420	Stud (right) Washer (fibre)	130770 and 130844
190990	9459	Looper Carrier Connection Ball Stud	*130770 9437 Needle Bar Connecting Link Hinge Pin
1147	0.400	(left)	
1147c	9430	Looper Carrier Connection Ball Stud	624c 9442 Set Screw
		(left) Set Screw	n D - Commenting Stud with 1454p
49043	9447	Looper Carrier Connection Ball Stud	" " " " Clamping
		(left) Washer (fibre)	14:545 311:
$175_{\rm E}$	9430	Looper Carrier Connection Cap (left)	Serew
		Screw	1753C 9439 Needle Clamping Nut
175E	9430	Looper Carrier Connection Cap (right)	157008 9741 "" ""
		Screw	389F 944Z Belew
130759	9439	Looper Carrier Hinge Stud	130799 21507 Presser Bar
49166	9434	" " Collar with	130800 9438 " " Bushing (lower)
		two 202r	435E 9431 " " " Set Screw
$202_{\rm F}$	9442	Looper Carrier Hinge Stud Collar Set	49061 21501 " " (upper)
		Screw	1133E 9431 " " " Set Screw
896E	9430		58046 9446 " " Lifter
130760	9448	Looper Carrier Hinge Stud Set Screw	212p 9430 " " Cap Screw
		On wick (braided cotton)	49064 9439 " " " Hinge Stud
	21507	TOCK SHAIL	448c 9431 " " " " Set Screw
<b>1</b> 30762	9435	Crank (back)	130801 9440 " " Lifting Bracket with 453c
		forked, with 51313c	and 892F
<b>51</b> 313c	9442	Looper Carrier Rock Shaft Crank (back)	892r 9447 Presser Bar Lifting Bracket Adjusting
		Position Screw	Serew
49049	9414	Looper Carrier Rock Shaft Crank (back)	453c 9414 Presser Bar Lifting Bracket Set Screw
		Slide Block	58048 9446 " " Link
130763	0.49%	Tanas Caria B. 1 Ct. 6 Ct. 1 Ct.	212p 9430 " " " Cap Screw
190109	9490	Looper Carrier Rock Shaft Crank (front)	1253c 9447 " " " Hinge Screw
		with 896E and two 157E	
$157_{ m E}$	9430	Looper Carrier Rock Shaft Crank (front)	58049 9446 Spring.
		Clamping Screw	THE OTH
137064	21511	Looper Gate with 735c	49007 21308 Spring (hav)
58002	9449	" " Hinge Pin	55405 9440
735c	9431	" " Set Screw	131019 Foot Compensating Lawrence
49054	9449	" Lock Spring	2261 9430
226ј	9430	" " Screw	18200 9440
1147c	9430	bcrew	137080 9438 " " Finger Guard
137065	9435	" Set Screw"	207 <sub>J</sub> 9442 " " " " Screw
101000	7200	and intead (under) take-up	137081 9438 " " Hinge Pin
		Eccentric	137082 — " " Plate

24	PARTS	FOR MACHINE No. 146-71	P	ARTS	FOR MACHINE No. 146-71 25
270	PLATE		İ		NAME
NO. 137083	PLATE	NAME Program Fact Shark		PLATE	Tension (upper thread) Screw Stud
137084	0428	Presser Foot Shank	50326c	9439	" " " " 50326c
191094	9400	Presser Foot (compensating, hinged)	59539		with 51570c
		complete, Nos. 207 <sub>J</sub> , 226 <sub>J</sub> , 18200 and			Tension (upper thread) Spring
100-	0490	137079 to 137083	59534	9440	" " " Bushing
		Presser Foot Screw	59537	9142	(large)
	9431 9431	Pressure Regulating Thumb Screw			Tension (upper thread) Spring Bushing
19998	9431	LOCK	59538	9440	(small)
124002	01505	Nut.			Tension (upper thread) Spring Washer.
130959	21505	Pulley (loose) 2 1/8 in. diam	32572	9440	" " Thread Guide
	9440	Slack Thread Controller	130850	9441	Thread (under) Take-up
1095г 2102	$\frac{9442}{9450}$	Screw	187072	9141	" " Connection
		Tension (under thread) Disc	130862	9441	(forked) with two 1057E
51570c	9439	regulating			Thread (under) Take-up Connection Cap
#020e-	0.420	Thumb Nut	1057€	9447	Screw
50326c	9439	Tension (under thread) Screw Stud			Thread (under) Take-up Connection Slide
59539		·· · · · · ·	130864	9440	Block
E0 E0 4	0440	50326c with 51570c			Thread (under) Take-up Screw
59534	9440	Tension (under thread) Spring	1905	9430	" " Thread Guide
59537	9442	Бизпия	130811	9440	" " " " "
, ,	0440	(large)	1751	9430	· · · · · · · · · · · · · · · · · · ·
59538	9440	Tension (under thread) Spring Bushing			Screw Thread (under) Thread Guide (back of
-		(small)	130812	9441	arm),
32572		Tension (under thread) Spring Washer /			Thread (under) Thread Guide Screw
 130807	9440	" " Thread Guide 1	14235	9442	" (upper) Controller
50530 K	9440	" (upper thread, automatic) Body	137073	9441	" " Screw
15770	9440	" " Cap.	д090		" " Thread Screw
130808	9438	" " " Re-	130854	9442	Eyelet
		leasing Cam with 1036c	5 - ().	0.491	
1036c	9442	Tension (upper thread, automatic) Re-	1708a	9431	Evelet Lock Nut
		leasing Cam Set Screw	i		V
130809	9438	Tension (upper thread, automatic) Re-	130855	9441	Thread (upper) Take-up with 457c
20000		leasing Pin	457c	9407	Bet Beton
9540	21503	Tension (upper thread, automatic) Spring	58010	9450	
848F	9438	" " Stud	1		with 1933
9541	9438	" " " " "	58011	9450	
9941	9430	Plug (micarda)	1		with 1933
			58014	9450	
34527		Tension (upper thread, automatic) com-	i	_	Plate
		plete, Nos. 848r, 9540, 9541, 15770	172c	9430	<del>_</del>
		and 50530x			Plate Screw
 130849	9440	Tension (upper thread, automatic)	50247c		
		Thread Guide	1732j	9447	•
190 <sub>J</sub>	9430	Tension (upper thread, automatic)			Nut.
		Thread Guide Screw	1933	9450	
2102		Tension (upper thread) Disc			Stud.
51570c	9439	Tension (upper thread) Regulating	17622	9450	
		Thumb Nut	137074	21507	" " Lever
			1		

NO.	PLATE	NAME
137075	21507	Thread Chain Cutting Lever Extension
137086		
		for 137087
137087		Thread Chain Cutting Lever Extension
		137086 with 13375, for hand operation
		for 146-71 Machine
13375	21511	Thread Chain Cutting I ever Extension
		Handle (wood) for 137087
172 <sub>D</sub>	9430	Thread Chain Cutting Lever Extension
		Screw
1483D	9442	Thread Chain Cutting Lever Extension
		Thumb Screw
137076	9439	Thread Chain Cutting Lever Hinge Stud
443c	9401	
		Set Screw
19510	9450	Thread Chain Cutting Lever Spring
137085	21502	Throat Plate, for double thread, for
		137078
$691_{\mathbf{F}}$	9431	Throat Plate Screw (large)
51023F	9442	" " " (small)
*15404		Trade Mark
15405		" " Rivet

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

Needles in Containers marked

"For Singer Machines"

are not Singer made needles.

# LIST OF PARTS COMPLETE FOR

# MACHINE No. 146-31

FOR CLOSING BAGS AFTER THEY ARE FILLED. THIS IS A SWINGING OUTFIT AND INCLUDES MACHINE HEAD, MACHINE
AND MOTOR BRACKET, CABLE WITH EYELETS, CLAMPS,
SHEAVE. COUNTERWEIGHT AND ELECTRIC TRANSMITTER
MOTOR. THE SEWING MACHINE AND MOTOR ARE BOLTED
TO A BRACKET THAT IS ATTACHED TO ONE END OF A
STEEL CABLE WHICH PASSES OVER A SHEAVE SUSPENDED
FROM THE CEILING. A COUNTERWEIGHT IS ATTACHED TO
THE OPPOSITE END SO THAT THE OPERATOR MAY EASILY
RAISE AND LOWER THE MACHINE FOR BAGS OF DIFFERENT
HEIGHTS.

Note: The 146-71 Machine Head is used on this outfit.

The motor required to operate this machine is of the continuously running electrical transmitter type.

When placing orders, the voltage must be given for S. D. Motors and the voltage, cycles and phase for S. A. Motors.

NO.	PLATE	NAME
124285		Machine Belt, 1/4 in. diam., 351/2 in. long,
		with 25128
137123	21510	Machine Belt Guard
333 g		" " Screw
25128		" " Hook
		. 2200211
41441		Difficel Dele Outdo I in
882c	9444	" " " " " Set
		Screw
124259	21514	Machine Belt Shifter Bracket with 858c
		and two 882c,
54640	9444	Machine Belt Shifter Bracket Hinge Stud
443c	9401	u .u u u u u
		Set Screw
124260	9445	Machine Belt Shifter Bracket Spring
124261	9445	" " " " " "
	01.0	Position Pin
554c	9445	Machine Belt Shifter Bracket Spring
0010	0110	
		Screw Eyelet
124282	9445	Machine Belt Shifter Handle
858c	9444	" " " Set Screw
137105	21512	" Bracket with 435c, 443c and

50422c.....

28	PARTS	FOR MACHINE No. 146-31	PARTS FOR MACHINE No. 146-31 29
NO.	PLATE	NAME	NAME
137106	·	Machine Bracket 137105 with 554c.	NO. PLATE 1672R 9445 Machine Counterbalance Cable Hook
		1178E, 1672R, 1795R, 9082, 20437.	Wooholt Lock Nut.
		50492R, 50706R, 51617R, 54640, 124259	Machine Counterbalance Cable Hook
		to 124261, 124282, 124292 to 124294,	Eucholt Nut.
		137107, 137109, two each 333R, 41441	Machine Counterbalance Cable Hook
-		and four 731R, when used with Series	Evobolt Nut Cotter Pin
		2800 Motors	- Machine Counterbalance Cable Retain-
137126		MachineBracket137105with554c,1178E.	ing Arm (left and right) with 350C
237220		1672R, 1795R, 9082, 20437, 50492R,	Machine Counterbalance Cable Retain-
		50706R, 51617R, 54640, 124259 to	ing Arm Set Screw
		124261,124282,124293,137107,137109	Machine Counterbalance Cable Sheave
		137123, 137125 and two each 333R.	121210 22
		41441 and four 731R, when used with	898622 21509 Grease Cup
		Series 38 Motors	Counterbalance Cable Sheave
197107	21509		124271 21512 Machine Counterbalance Cash, Sheave Hanger with 344c and 51287c
137107		Machine Bracket Handle	Machine Counterbalance Cable Sheave
435c		Set Strew	124272 — Machine Counterbalance Capito Salary Hanger 124271 with 1672 R, 124289
126573	9444 9445	MIOTOL BGIEW	and 124290
		Diake (thermold)	and 124290
137108	21509	Diacket	124287 — Machine Counterbalance Cable Sheave
137109	<del></del>	19/109 WILL	$H_{anger}$ 124272 with 124270, 124273,
		126573 and two 27878	137128, 898622 and two 137127
1178E		Machine Brake Bracket Screw	124289 21510 Machine Counterbalance Cable Sheave
20437	9445	" " Washer	Hanger Evebolt
27878	9444	" " Rivet	Machine Counterbalance Cable Sheave
137110		" Counterbalance (130 lbs.) with	Hanger Evebolt Nut
•		124276	13 1900 0445 Machine Counterbalance Cable Sheave
137124	<del></del>	Machine Counterbalance (123½ lbs.)	Hanger Eyebolt Nut Lock Washer
		with 124276, when used with Series	Otto Otto Machine Counterbalance Cable Sheave
		38 Motors	Hanger Evebolt Set Screw
124266		Machine Counterbalance Cable, length	197108 91515 Machine Counterbalance Cable Sheave
		20 ft. (3/8 in.)	Hinge Pin
124267	21512	Machine Counterbalance Cable 124266	51287c 9444 Machine Counterbalance Cable Sheave
124201	21012	with 124269	Hinge Pin Set Screw
124268	21509	Machine Counterbalance Cable Clamp,	121275 21509 Machine Counterbalance Cable Sheave
124200	21309	size 3/8 in	Roller Bearing
*124269		Machine Counterbalance Cable Hook	124276 21510 Machine Counterbalance Eyebolt
124209	21510	" " " " "	Machine Counterbalance Weight Equalizer
124290	21910	Eyebolt	(% shot) 10 lbs. required.
124294	21514	Machine Counterbalance Cable Hook	Note: When ordering Weight Equalizer, amount
		Eyebolt Bracket	required must be stated in lbs. or ozs.
137125	21510	Machine Counterbalance Cable Hook	
		Eyebolt Bracket for 137126	50548R 9444 Machine Screw (long)
50706R	9444	Machine Counterbalance Cable Hook	1588R 9444 " " " Nut
		Eyebolt Bracket Bolt	9281R 9445 " " " Washer
1795r	9444	Machine Counterbalance Cable Hook	50916R 9444 " " (lower)
		Eyebolt Bracket Bolt Nut	50492R 9444 " (short)

# **ACCESSORIES**

		<del></del>
NO.	PLATE	NAME
120908	21511	Bag Guide Hook
120344	9432	Oiler (copper plated) with 120345
120345	9432	" Spout, 5 in. long
11831	9432	Screw Driver (large)
26026	9432	" (medium)
26485	9432	" " (small)
120341	9432	Tweezers (curved).
8908	21503	Wrench for 1753.
68547	21503	" " 1629
124161	9433	"     "     350,731,1513
124162	9433	" 1518, 1519, 1619, 1636, 1731,
124163	9433	and 50340
		Wrench for 1508

# THREAD UNWINDER

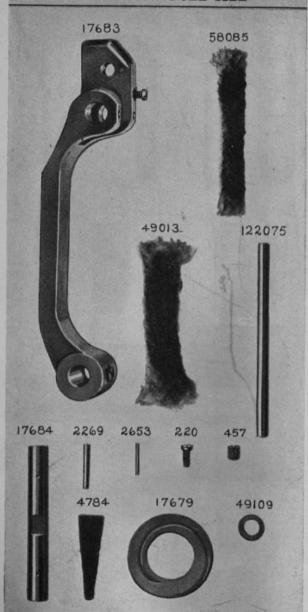
#### FOR TWO SPOOLS

NO.	PLATE				NAME		
124278	21513	Count	terba]	lance	with A	1288 p	•••••
51288R	21503		44		Thum	h Serom	• • • • • • • • • • • • • • • • • • •
225257	21513	Spool	Rest	with	20101	Ra Sa	•••••••••
150203	21513	-"	"	Cast	hion	oc	· · · · · · · · ·
124295	21513	"	"	Rod	with 1	22102	· • • • • • • • • • • • • • • • • • • •
123183	21503	44	"	"	Cotto	.20100., . Din	• • • • • • • • • • •
124296	21513	44	"	"	Exten	rion	
124297	21513	"	"	"		Сои	.1:
		two	456c			Cou	pling with
456c 2	21503	Spool	Rest	Rod	Extone	ion Ca-	pling Set
		Scre	w	-wu	TAVICHE	STOTE COL	ipling Set
50422c 2	1503	Spool	Rest	Rod	Extens	· · · · · · · · · · · · · · · · · · ·	Screw
201018c 2	1503	"	46	Sat S	anor:	non set	ocrew
	1513	Thread	l Guid	da da	crew		
201696л 2	1503	"	"	ч <del>с</del> Т	ole Me	· · · · · · · ·	• • • • • • • •
	1513	"	"	D.	ock Nu	ιτ	
	1513	"	46	D.	sition	Cup	
208E 2		"	46	- TX	KI WILD	208E an	d 225322
	1503	"	"		ocre	w	
	1513	Throad	TT		yy a.s	ner	· · · · · · ·
	1010	19490	Onw.	maer	compl	ete, Nos	124278,
		90596	10 to	124	297, 2	01696 <i>t</i> ,	225257,
		22032	54, 22	o326	and to	wo 2253	91

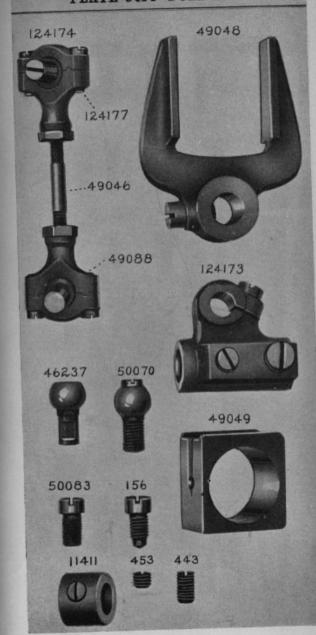
#### PLATE 9401-FULL SIZE



#### PLATE 9407-FULL SIZE



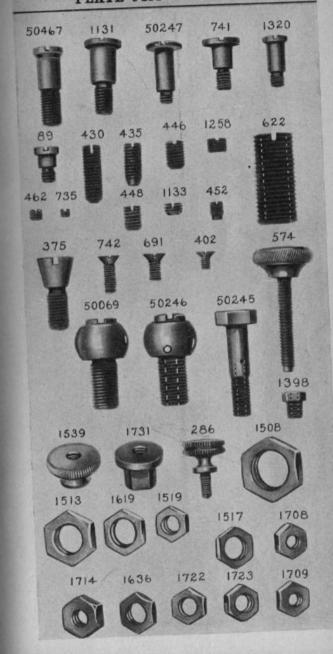
# PLATE 9414-FULL SIZE



#### PLATE 9430-FULL SIZE

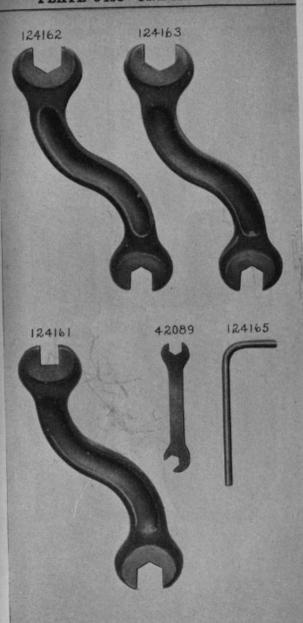
		The state of the s		
144	1489	128	690	1396
T	T		T	T
145	157	896	152	159
	T	1	1	1
898	161	172	704	914
T	1	T	T	T
160	158	190	175	171
T	1	T		
193	217	226	1147	1279
T-	T	T		ï
964	199	2	12	50086
T	T	•	T	T
802	5024	4	63	
	1		T	

# PLATE 9431-FULL SIZE

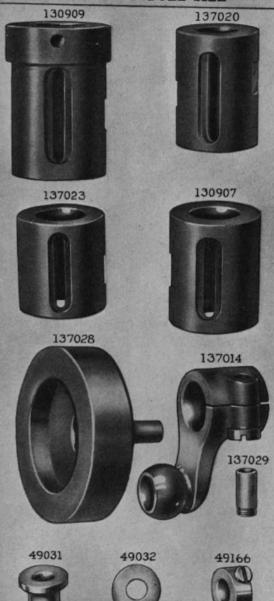


# PLATE 9432-ONE-HALF SIZE 11831 26026 26485 120341 120344 -120345

# PLATE 9433-ONE-HALF SIZE



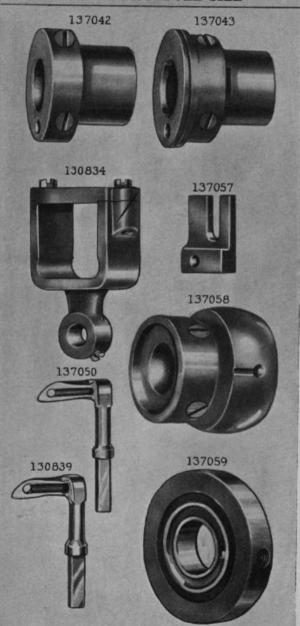
# PLATE 9434-FULL SIZE



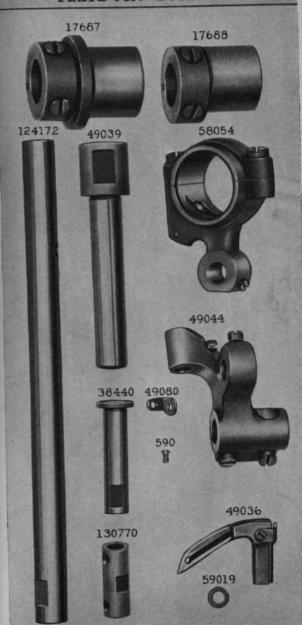
# PLATE 9435-FULL SIZE



#### PLATE 9436-FULL SIZE



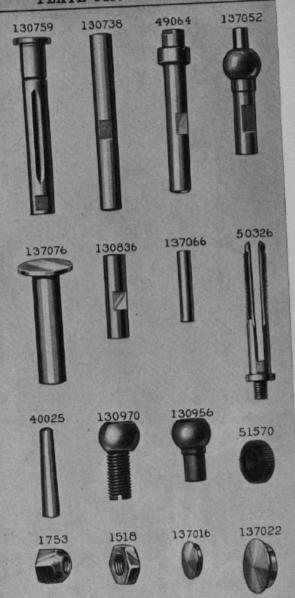
# PLATE 9437-FULL SIZE



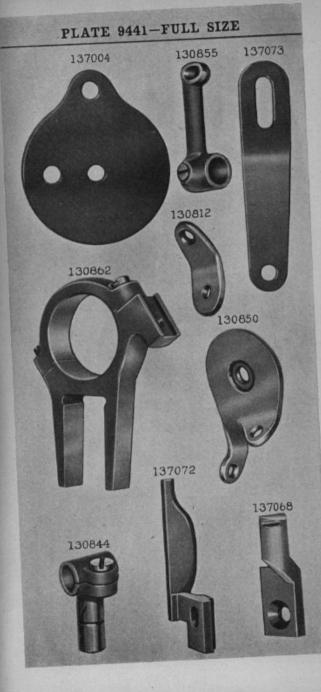
#### PLATE 9438-FULL SIZE



# PLATE 9439-FULL SIZE



# PLATE 9440-FULL SIZE

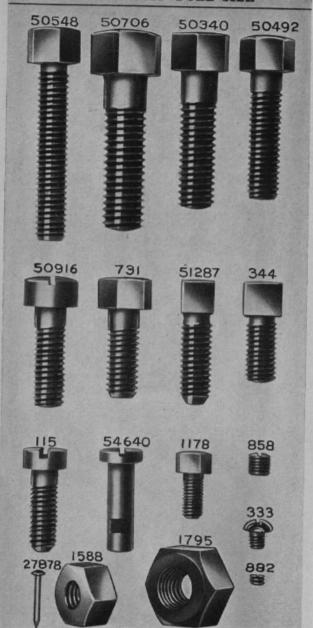


# PLATE 9442-FULL SIZE 50085 176

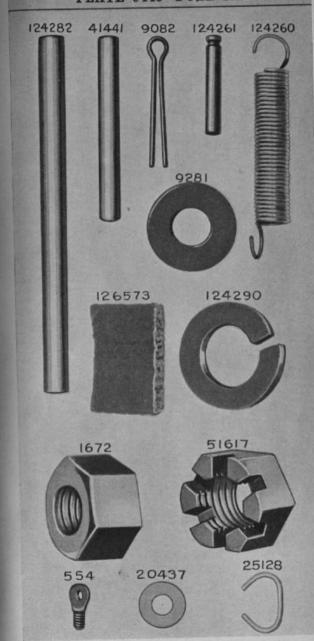
# PLATE 9443-FULL SIZE



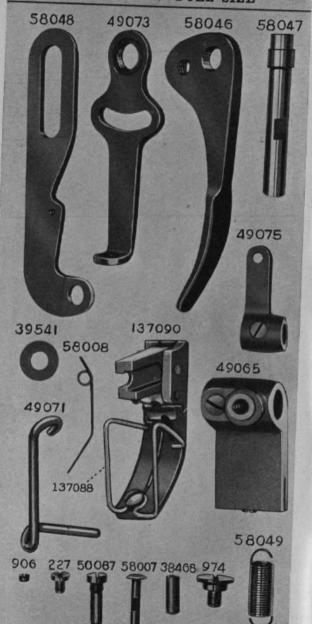
## PLATE 9444-FULL SIZE



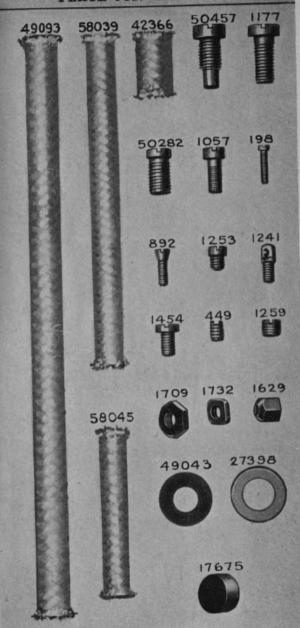
## PLATE 9445-FULL SIZE



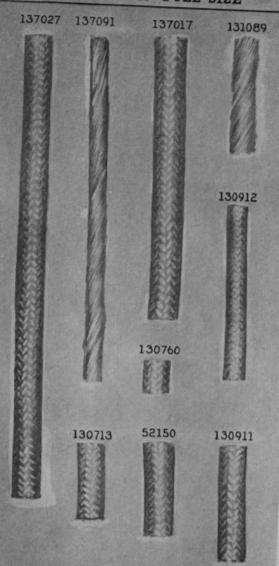
# PLATE 9446-FULL SIZE



## PLATE 9447-FULL SIZE



# PLATE 9448-FULL SIZE



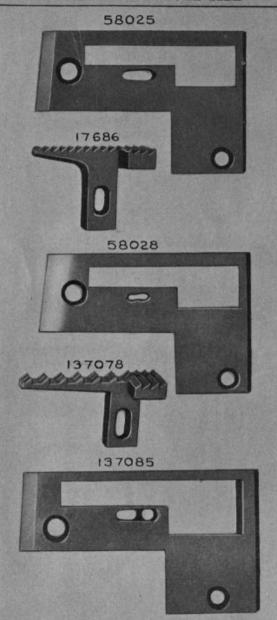
## PLATE 9449-FULL SIZE



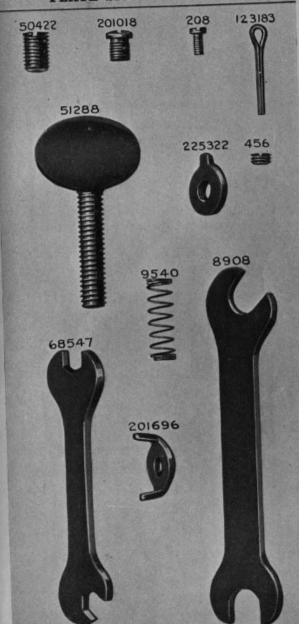
# PLATE 9450-FULL SIZE 19510 124171

# PLATE 21501-FULL SIZE

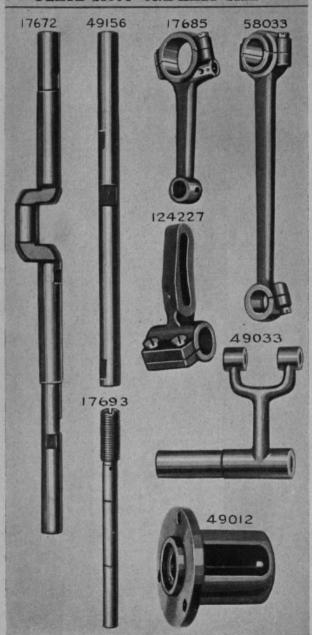
#### PLATE 21502-FULL SIZE



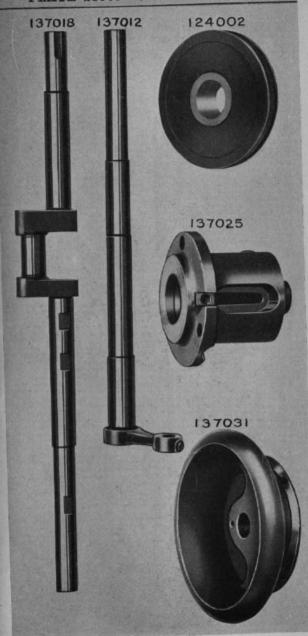
# PLATE 21503-FULL SIZE



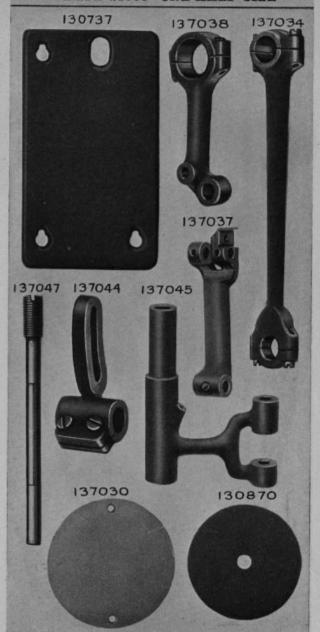
#### PLATE 21504-ONE-HALF SIZE

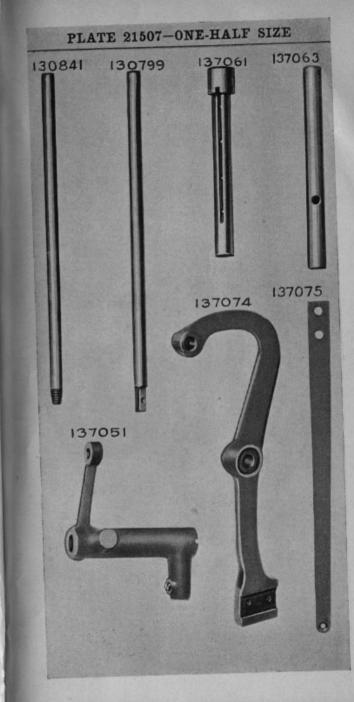


# PLATE 21505-ONE-HALF SIZE

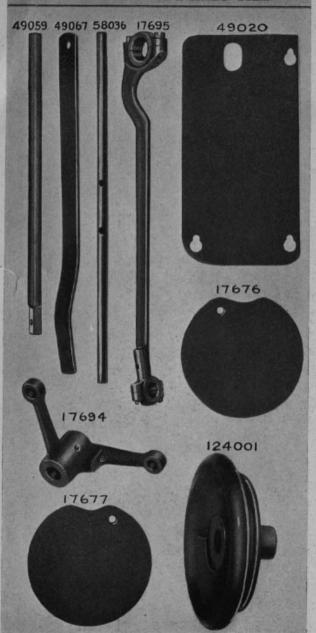


#### PLATE 21506-ONE-HALF SIZE





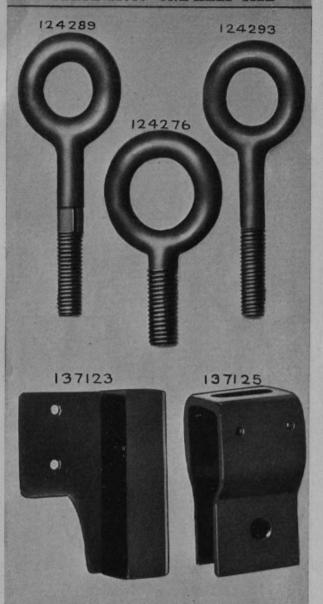
#### PLATE 21508-ONE-HALF SIZE



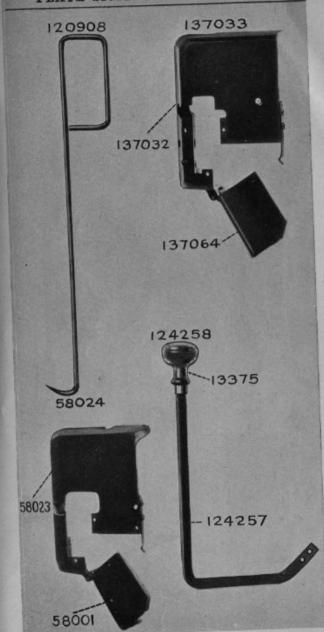
# PLATE 21509-ONE-HALF SIZE



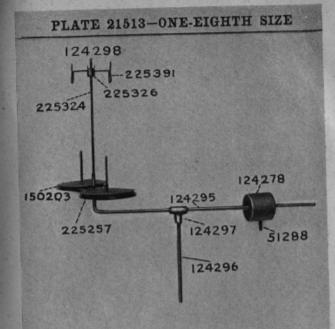
#### PLATE 21510-ONE-HALF SIZE



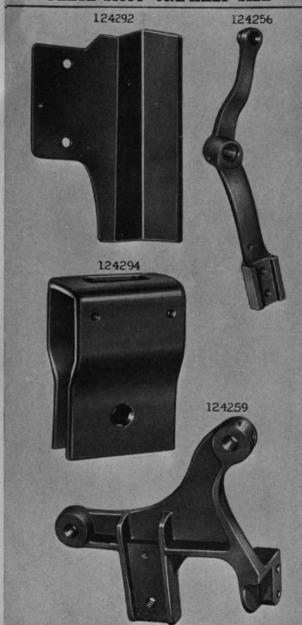
# PLATE 21511-ONE-FOURTH SIZE



# PLATE 21512-ONE-EIGHTH SIZE



#### PLATE 21514-ONE-HALF SIZE



# PLATE 21515-ONE-HALF SIZE

137128





