FORM 18665 APRIL, 1933 PRINTED IN U. S. A.

REPAIR SHOP

# LIST

# PARTS



MACHINE No. 159-1

THE SINGER MANUFACTURING COMPANY

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#### INSTRUCTIONS FOR OILING

To insure easy running and prevent unnecessary wear of the parts which are in movable contact, the machine requires oiling and when in continuous use, should be oiled at least twice each day by applying Singer Cloth and Leather Oil to all oil holes marked "Oil" and to all other oiling places.

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.

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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 ease 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

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
T. Chromium Plated
T. Chromium Plated

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.

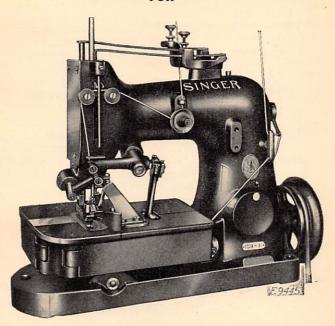
In this series:

1 to 1500 and 50001 to 51500 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 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. 159-1**

FOR OVEREDGING HEAVY BURLAP BAGS WITH FLAX, JUTE OR HEMP TWINE; ALSO FOR FELT PADDING, CARPETS, ETC., UP TO 3/8 INCH IN THICKNESS. TWO-THREAD CHAIN STITCH. ONE NEEDLE. SPREADER AND LOOPER. BIGHT 1/2 INCH, LENGTH OF STITCH 3/8 IN. TO 5/8 IN. NEEDLE STROKE 21/4 INCHES.

TWO INDEPENDENT PRESSER BARS AND HINGED PRESSER FEET. FOOT LIFTER. BALANCE WHEEL NO. 122007. DIAMETER OF BELT GROOVE 43/8 INCHES. SPEED 1600.

NO.	PLATE	NAME
	AND ADDRESS OF THE PARTY.	
*132301		Arm, upper and lower (solid)
49091	8812	" Oil Tube with 49092, for oiling
		Crank Connecting Rod (lower bearing)
52084	8812	Arm Oil Tube with 52045, for oiling Arm
		Rock Shaft Intermediate Bearing
52630	8812	Arm Oil Tube with 49092, for oiling
		Crank Connecting Rod (upper bearing)

NO. PLATE	NAME
448c 8801	Arm Rotary Shaft Flanged Bushing
4400 0001	(intermediate) Set Screw
64805 8812	Arm Rotary Shaft Oil Pad (braided
64805 8812	cotton) for Front Bearing
04005 0010	
64805 8812	Arm Rotary Shaft Oil Pad (braided
1000 000 00	cotton) for Intermediate Bearing
4288 20959	Arm Side Cover (back)
286р 20957	" " " Thumb Screw
4288 20959	(110110)
286р 20957	Thumb Sciew
122007 20963	Balance Wheel, 43% in. diam., with two
	430c
430c 8801	Balance Wheel Set Screw
132305 20963	Cloth Plate with two 132306
132306 20964	" Oil Tube with 49092, for
	oiling Feed Eccentric Connection
132306 20964	Cloth Plate Oil Tube with 49092, for
102000 20001	oiling Looper Rock Shaft Connecting
	Rod
10000 0010	Cloth Plate Oil Tube Packing (felt)
49092 8812	
132307 20955	blide
132308 ——	Cloth Plate complete, Nos. 132305,
	132307, 132323, 132324, two each
	42005, 52716c and four 217j
50467F $20957$	Cloth Plate Screw
122012 20959	Crank Connecting Rod with 896E, 49099,
	49109 and two 145E
122086	Crank Connecting Rod 122012 with
	1513 <sub>J</sub> and 50147с
896E 20957	Crank Connecting Rod Adjusting Screw
49109 8801	" " Washer
49109 8801 *49099 ——	" " Washer
*49099	" " " Washer " Cap
*49099 —— 145E 20957	" " " Washer " Cap
*49099 —— 145E 20957 50147c 20957	" " " Washer " Cap
*49099 —— 145E 20957 50147c 20957 1513J 20958	" " " Cap
*49099 —— 145E 20957 50147c 20957 1513J 20958 132309 20959	" " " Cap
*49099 ——————————————————————————————————	" " Washer " " Cap " " Screw " " " " Nut. Face Plate " " Screw
*49099 —— 145E 20957 50147c 20957 1513J 20958 132309 20959	" " " Washer " " Cap " " " Screw " " " Hinge Screw " " " " Nut. Face Plate " " Screw Feed Bar
*49099 ——————————————————————————————————	" " " Washer " " Cap " " " Screw " " " Hinge Screw " " " " Nut.  Face Plate " " Screw Feed Bar Feed Bar complete, Nos. 1901, 457c,
*49099 ——————————————————————————————————	" " " Washer " " Cap " " " Screw " " " Hinge Screw " " " " " Nut.  Face Plate " " Screw  Feed Bar. Feed Bar complete, Nos. 190J, 457c, 1258c, 122016, 122017, 132310, 132312
*49099 ——————————————————————————————————	" " " Cap
*49099 —— 145E 20957 50147c 20957 1513J 20958 132309 20959 193E 20957 132310 20953 132311 —— 122016 20953	" " " Washer " " Cap " " " Screw " " " Hinge Screw " " " " " Nut.  Face Plate " " Screw Feed Bar. Feed Bar complete, Nos. 190J, 457c, 1258c, 122016, 122017, 132310, 132312 and two 704c Feed Bar Extension.
*49099 —— 145E 20957 50147c 20957 1513J 20958 132309 20959 193E 20957 132310 20953 132311 ——  122016 20953 704c 20953	" " " Cap
*49099 —— 145E 20957 50147c 20957 1513J 20958 132309 20959 193E 20957 132310 20953 132311 ——  122016 20953 704c 20953 52716 20953	" " " " Washer " " Cap " " " Screw " " " Hinge Screw " " " " " Nut.  Face Plate " " Screw Feed Bar. Feed Bar complete, Nos. 190J, 457c, 1258c, 122016, 122017, 132310, 132312 and two 704c Feed Bar Extension " " Screw " " Hinge Pin
*49099 —— 145E 20957 50147c 20957 1513J 20958 132309 20959 193E 20957 132310 20953 132311 ——  122016 20953 704c 20953	" " " " Washer " " Cap " " " Screw " " " Hinge Screw " " " " Nut.  Face Plate " " Screw  Feed Bar. Feed Bar complete, Nos. 190J, 457c, 1258c, 122016, 122017, 132310, 132312 and two 704c  Feed Bar Extension " " Screw " " Hinge Pin

NO. PLATE	NAME
132312 20953	Feed Bar Wearing Plate
190л 20953	" " Screw
132313 20952	" Dog, 13 teeth (5½ teeth to the
	inch)
157E 20957	Feed Dog Screw
457c 20957	" " Stop Screw
132314 20961	" Eccentric with two 1036c
132314 20961	" Connection with 2653,
132315 20901	Connection with 2000,
	4784, 132316 and two 145E
*132316 ——	Feed Eccentric Connection Cap
145 E 20957	Screw
4784 8812	On rad (lelt).
2653 8812	" " " Pin
1036c20957	" Set Screw
122023 8801	" Lifting Cam with 1258c
1258c 8801	" " Set Screw
50086c20957	" Regulating Screw Stud
1714c 20957	" " " Nut
49031 8801	" " Sleeve
49032 8801	" " Washer
132317 20961	" Rock Shaft with two 1258c
132358 20961	" " Hinge Pin
122026 8801	" " " Bushing
453c 20957	" " " " Set
	Screw
1258c 8801	Feed Rock Shaft Hinge Pin Set Screw
132318 20961	Finger Guard.
132319 20961	Guide
132320 20961	" Finger
203120957	" " Screw
690J20957	" Screw
9525 8801	" Washer
132321 20952	
132322 20955	" Eccentric with two 1036c
1036c 20957	" Set Screw
132323 20963	" Gate (left) with 1259c
132324 20963	" (right) with 1259c
52716c 20953	(Hght) with 1209c
1259c 8801	" " Hinge Pin
42005 20965	
	Lock Spring
217,120958	" " " Screw " Rock Shaft with two each 1120c
132325 20960	
	and 1259c
132326 20962	Looper Rock Shaft Connecting Rod with
	132328, 132329 and two each 127E
	and 158E

270 27 ( 1777	NAME
NO. PLATE 132365 ——	Looper Rock Shaft Connecting Rod
132303	132326 with 132322 and 132327
100007 00070	
132327 20958	Looper Rock Shaft Connecting Rod Ball Screw Stud (eccentric)
1513c 20958	Looper Rock Shaft Connecting Rod
	Ball Screw Stud Nut
*132328	Looper Rock Shaft Connecting Rod
	Cap (lower)
$158e\ 20957$	Looper Rock Shaft Connecting Rod
	Cap (lower) Screw
*132329	Looper Rock Shaft Connecting Rod
	Cap (upper)
127E 20957	Looper Rock Shaft Connecting Rod
	Cap (upper) Screw
42077 20958	Looper Rock Shaft Connecting Rod
12011 2000	Guide
171E 20958	Looper Rock Shaft Connecting Rod
	Guide Screw
132358 20961	Looper Rock Shaft Hinge Pin
132330 20961	" " " " Bushing " " " " Set
448c 8801	" " " " Set
	Screw
68350 20964	Looper Rock Shaft Hinge Pin Oil Cup
1259c 8801	" " Set Screw.
1120c20957	" Set Screw
122042 20962	Needle Bar (hollow)
122043 20958	Dusning (lower)
452c 20957	Set Screw
122044 20958	" " (upper) " " Set Screw
452c 20957	" " Connecting Link
49101 20958 49057 20958	" " Hinge Stud
1517 <sub>J</sub> 20958	" " " " " "
1011120000	Nut
122045 20958	Needle Bar Connecting Stud with two
	1454E
$1454 \pm 20958$	Needle Bar Connecting Stud Clamping
	Screw
1753c 20957	Needle Clamping Nut
122048 20962	Presser Bar (left)
59033 20954	" " Bushing (lower)
452c20957	
	Screw
122049 20954	Presser Bar (left) Bushing (upper) S e t
$452c\ 20957$	
	Screw

NO. PLATE	NAME
124193 20954	Presser Bar (left) Collar with two 1253c
1253c 20954	" " " Set Screw
122050 20953	" " Lifting Bracket with
	1258c
1258c 8801	Presser Bar (left) Lifting Bracket Set
	Screw
122051 20962	Presser Bar (right)
59033 20954	" " Bushing (lower)
452c 20957	" " " Set
1020 20001	Screw
122049 20954	Presser Bar (right) Rushing (upper)
452c 20957	" " " Set
1020 20301	Screw
122052 20953	Presser Bar (right) Lifting Bracket with
122002 20300	1258c
1258c 8801	Presser Bar (right) Lifting Bracket Set
12000 0001	Screw
122053 20959	Presser Bar Lifter.
42007 20954	" " Hinge Pin
452c 20957	" " Set Screw.
122054 20960	" " Spring (flat)
122054 20960	opring (nat)
1396J20957	2740400
	Screw
38468 20965	Stud
132331 20951	root (left) ringer Guard
337 <sub>J</sub> 20951 132332 ——	Screw
646F 20951	rate
122057 ——	ringe Screw
	Shank
132333 20951	Presser Foot (left, hinged) complete,
	Nos. 646F, 122057, 132331, 132332
	and two 337j
898F 20951	Presser Foot (left) Screw
132334	" (right) Plate
646F 20951	" " " Hinge Screw
122060 ——	" " " Shank
132335 20951	Presser Foot (right, hinged) complete,
	Nos. 646r, 122060 and 132334
898f 20951	Presser Foot (right) Screw
574J $20957$	Pressure Regulating Thumb Screw
1539J $20957$	" " " Lock
	Nut
132336 20952	Spreader
132322 20955	" Eccentric with two 1036c
1036c 20957	" Set Screw
132337 20954	" Holder with two 1120c
$50562c\ 20954$	" " Hinge Screw

NO. PLATE	NAME
1520J20954	Spreader Holder Hinge Screw Nut
132338 20954	" Crank
42053 20954	" " Hinge Stud
132339 20954	" " " Bush-
	ing
1259c 8801	Spreader Holder Crank Hinge Stud Bush-
	ing Set Screw
132340 20960	Spreader Lever
132327 20958	" " Ball Screw Stud (eccen-
	tric)
1513c 20958	Spreader Lever Ball Screw Stud Nut
132341 20960	" Connecting Rod with
	171E, 42077, 68350, 128845, 132342,
	132343 and two each 127E and 158E
132366 ——	Spreader Lever Connecting Rod 132341
	with 132322 and 132327
*132342	Spreader Lever Connecting Rod Cap
	(lower)
127E 20957	Spreader Lever Connecting Rod Cap
	(lower) Screw
*132343	Spreader Lever Connecting Rod Cap
	(upper)
$158E\ 20957$	Spreader Lever Connecting Rod Cap
	(upper) Screw
42077 20958	Spreader Lever Connecting Rod Guida
$171E\ 20958$	u u u u
	Screw
68350 20964	Spreader Lever Connecting Rod Oil
	Cup
128845 20964	Spreader Lever Connecting Rod Oil
	Pad (braided cotton)
132344 20954	Spreader Lever Shaft
64836 20954	Conar with two
1070- 0001	1259c
1259c 8801 1513J20958	Spreader Lever Shaft Collar Set Screw
1120c 20957	1,410
122062 20956	" Set Screw Tension (looper thread) Disc
51570c 20956	" " Regulating
313700 20930	Thumb Nut
50261c 20956	Tension (looper thread) Screw Stud
132360 ——	" " " 50261c
20200	with 51570c
122063 20956	Tension (looper thread) Screw Stud
	Sleeve
42336 20956	Tension (looper thread) Spring
59538 20956	" " Bushing.
	a doming.

NO. PLATE	NAME
122064 20956	Tension (looper thread) Thread Eyelet
447c 20956	
	Set Screw
122062 20956	Tension (needle thread) Disc
51570c 20956	" " Regulating
	Thumb Nut
50261c 20956	Tension (needle thread) Screw Stud
132360	
	50261c with 51570c
122063 20956	Tension (needle thread) Screw Stud
122000 20000	Sleeve
132369 20956	Tangian (needle thread) Spring
59538 20956	" " Bushing. " " Thread Eyelet " " Set
122064 20956	" " Thread Evelet
447c 20956	" " " " Set
4470 20990	Screw
132345 20956	Thread (looper) Controller
132346 20965	" " Eccentric
132346 20905	with two 200c
100045 00050	Thread (looper) Controller Eccentric
132347 20958	Connecting Rod with 132349, 132350,
	and two each 171E and 896E
	Thread (looper) Controller Eccentric
132367	Connecting Rod 132347 with 1931,
	Connecting Rod 152547 with 1953, 55034, 132346 and 132348
	Thread (looper) Controller Eccentric
132348 20958	Connecting Rod Ball Stud
	Thread (looper) Controller Eccentric
1259c 8801	Connecting Rod Ball Stud Set Screw
	Thread (looper) Controller Eccentric
*132349	Thread (looper) Controller Eccentric
	Connecting Rod Cap (large)
896E 20957	Thread (looper) Controller Eccentric
	Connecting Rod Cap (large) Screw
*132350	Thread (looper) Controller Eccentric
	Connecting Rod Cap (small)
$171E\ 20958$	Thread (looper) Controller Eccentric
	Connecting Rod Cap (small) Screw
55034 20958	Thread (looper) Controller Eccentric
	Connecting Rod Guide
193 <sub>J</sub> $20957$	Thread (looper) Controller Eccentric
	Connecting Rod Guide Screw
200c 20965	Thread (looper) Controller Eccentric
	Set Screw
132351 20960	Thread (looper) Controller Lever with
	1259c
42053 20954	Thread (looper) Controller Lever Hinge
	Stud

NO. PLATE			NAMI			
453c20957	Thread	(looper	) Cont	roller L	ever I	Iinge
	Stud	Set Scre	ew			
190J $20953$	Thread	(looper	) Contr	oller Sc	rew	
58800 20956	"	"	Guid	e Roller		
132352 20956	"	"	"	66	Cove	
1042c20956		"	**	"	Screv	
122065 20965	"	(upper)	Guide	(side of	arm)	
457c 20957	"	"	"		"	Set
	Screw	·				
132363 20956	Thread	(upper	) Guid	e Rolle	er (sic	le of
132364 20956	Thread	(upper)	Guide	Roller	Cover	
1042c 20956	"	"	"		Screw	
132353 20956	"	"	Pull-of			
1520R 20954	"	"	"	Nut.		
132354 20956	"	"	Take-u	ıp	101 100	
1454J $20958$	"	"	"	Screy	v	
132355 20964	"	"	"		per	
1120c 20957	- "	"	"	"	S	e t
	Screw					
132356 20956	Thread					
447c 20956	"	"	- "	"		Set
	Screw					
132357 20952	Throat	Plate	(large	needle	hole)	for
		3				
132359 20951	Throat	Plate	(small	needle	hole)	for
	13231	3	,		1.010)	101
742F 20957	Throat	Plate Sc	rew.			

### **ACCESSORIES**

NO. PLATE	NAME
4718 8812	Machine Base Cushion (felt)
50144л 8811	" Thumb Screw with 49095.
49095 8812	" " " Washer
120344 8811	Oiler (copper plated) with 120345
120345 8811	" Spout, 5 in. long
11831 8811	Screw Driver (large)
26026 8811	" " (small)
120341 20964	Tweezers (curved)
8909 8811	Wrench for 1513 and 1517
8908 8811	" " 1753
49079 20960	" " 1714
132370 20965	" " 132327

#### MACHINE BASE

NO.	PLATE			N	AME							
49123	8812	Machine	Base	Oil	Pipe	e						
49124	8812	"	"	"	"	Va	alve					
50468E	20957	"	Screv	v								
122084	8812	"	Wash	ner (	leat	her)				***		
122080	8810	"	Base	wi	th -	4912	23,	49	12	4	a	nd
		three e	each 5	046	SE a	nd	122	084			****	

#### FOLD GUIDE

NO. PLATE	NAME
120895 20961	Fold Guide
132320 20961	" " Finger
217J $20958$	" " Screw
120896 20961	Fold Guide complete, Nos. 120895,
	132320 and two 217j
690120957	Fold Guide Screw
9525 8801	" " Washer

### **FOOT LIFTER PARTS**

NO.	PLATE	NAME								
6439		Chain,	36	in.	to	45	in.,	with	56864	and
		5686	5							

Note: When ordering No. 6439, state length required.

4879	8811	Chain C	Conn	ecting Link
56864	8811	" F	Hook	(large)
56865	8812	"	"	(small)
122081	8810	Lifting	Leve	r
122082	20965	"	"	Connection
802p	20957	"	"	Hinge Screw
16069	20961	"	"	Spring
871E	20957	"	"	Stop Screw
4881	8810	Treadle		
4882	8811	"	Sha	ft
4883	8811	"	Spr	ing
4884	8810	"	Star	nd
4885	8810	Treadle	cor	nplete, Nos. 4879, 4881 to
		4884	and	two wood screws 1 in. No. 16
122083				complete, Nos. 802D, 871E,
		4885,	643	9, 16069, 122081 and 122082

#### THREAD UNWINDER

#### FOR TWO SPOOLS

NO. PLATE	NAME
225257 20787	Spool Rest (for two spools) with 201018c
150203 ——	" Cushion (felt)
225388 20787	" " Rod
200383c 20965	" " Set Screw
201018c 20957	" " Set Screw
202490 20787	" Stand with 200383c
225391 20787	Thread Guide
201696ј 20965	" " Lock Nut
225326 20965	" Position Cup
225324 20787	" Rod with 208E and 225322
208e 20957	" " Screw
225322 20965	" " Washer
*150085	" Separator
150086 20787	" " 150085 with 150059
*150059	" Bracket
150060 20787	" " Arm with 164J
	and 9525
164J $20957$	Thread Separator Bracket Arm Clamp-
	ing Screw
9525 8801	Thread Separator Bracket Arm Clamp-
	ing Screw Washer
164J $20957$	Thread Separator Bracket Arm Screw
9525 8801	
	Washer
150087 ——	Thread Separator complete, Nos. 164c,
	9525, 150060 and 150086
150088 20787	Thread Unwinder complete, Nos. 150087,
	201696л, 202490, 225257, 225324,
	225326, 225388, two each 150203,
	225391 and three wood screws 1/8 in.
	in. No. 12
27739 20962	Thread Cone (wood) for large cones
225390 20962	" Holder, for inverted cones
N N	07790 1 007900 1 -:11

Note: Nos. 27739 and 225390 are used with, but not included in 150088. 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.

NUMERICAL LIST OF PARTS

FOR

MACHINE No. 159-1

#### NUMERICAL LIST OF PARTS

NO. PLATE	NAME
$127E\ 20957$	Looper Rock Shaft Connecting Rod Cap
	(upper) Screw for 132326
$127E\ 20957$	Spreader Lever Connecting Rod Cap
	(lower) Screw for 132341
145E $20957$	Crank Connecting Rod Cap Screw for
	122012
145 E 20957	Feed Eccentric Connection Cap Screw
	for 132315
157E 20957	Feed Dog Screw
158E 20957	Looper Rock Shaft Connecting Rod Cap
	(lower) Screw for 132326
158E 20957	Spreader Lever Connecting Rod Cap
	(upper) Screw for 132341
159F 20957	Arm Rotary Shaft Flanged Bushing
	(back) Screw
164л 20957	Thread Unwinder Thread Separator
	Bracket Arm Clamping Screw for
	150060
164л 20957	Thread Unwinder Thread Separator
	Bracket Arm Screw for 150087
171E 20958	Looper Rock Shaft Connecting Rod
	Guide Screw
171E 20958	Spreader Lever Connecting Rod Guide
	Screw for 132341
171E 20958	Thread (looper) Controller Eccentric
	Connecting Rod Cap (small) Screw
	for 132347
190л 20953	Feed Bar Wearing Plate Screw for 132311
190л 20953	Thread (looper) Controller Screw
193E 20957	Face Plate Screw
193ј 20957	Thread (looper) Controller Eccentric
	Connecting Rod Guide Screw for
	132367
200c 20965	Thread (looper) Controller Eccentric
	Set Screw for 132346
203ј 20957	Guide Finger Screw
208E 20957	Thread Unwinder Thread Guide Rod
	Screw for 225324
217л 20958	Fold Guide Finger Screw for 120896
217л 20958	Looper Gate Lock Spring Screw for
	132308
286р 20957	Arm Side Cover (back) Thumb Screw
286р 20957	" " (front) Thumb Screw
337ј 20951	Presser Foot (left) Finger Guard Screw
	for 132333

NO. PLATE	NAME
430c 8801	Arm Rotary Shaft Bushing (front) Set
	Screw
430c 8801	Balance Wheel Set Screw for 122007
443c 8801	Arm Rock Shaft Collar Set Screw for
	132302
447c 20956	Tension (looper thread) Thread Eyelet
	Set Screw
447c20956	Tension (needle thread) Thread Eyelet
	Set Screw
447c 20956	Thread Eyelet, double (side of arm) Set
	Screw
448c 8801	Arm Rock Shaft Bushing (back) Set
	Screw
448c 8801	Arm Rock Shaft Bushing (front) Set
	Screw
448c 8801	Arm Rock Shaft Bushing (intermediate)
	Set Screw
448c 8801	Arm Rock Shaft Flanged Bushing
	(front) Set Screw
448c 8801	Arm Rotary Shaft Flanged Bushing
	(intermediate) Set Screw
448c 8801	Looper Rock Shaft Hinge Pin Bushing
	Set Screw
452c20957	Needle Bar Bushing (lower) Set Screw
452c20957	" " (upper) Set Screw
452c20957	Presser Bar (left) Bushing (lower) Set
	Screw
452c20957	Presser Bar (left) Bushing (upper) Set
	Screw
452c20957	Presser Bar (right) Bushing (lower) Set
	Screw
452c20957	Presser Bar (right) Bushing (upper) Set
	Screw
452c 20957	Presser Bar Lifter Hinge Pin Set Screw
$453c\ 20957$	Feed Rock Shaft Hinge Pin Bushing Set
	Screw
453c 20957	Thread (looper) Controller Lever Hinge
	Stud Set Screw
457c 20957	Feed Dog Stop Screw for 132311
$457c\ 20957$	Thread (upper) Guide (side of arm) Set
	Screw
574J20957	Pressure Regulating Thumb Screw
646F $20951$	Presser Foot (left) Plate Hinge Screw for
	132333
646F $20951$	Presser Foot (right) Plate Hinge Screw
	for 132335
690л20957	Fold Guide Screw

NO. PLATE	NAME
690л20957	Guide Screw
704c 20953	Feed Bar Extension Screw for 132311
742F $20957$	Throat Plate Screw
802 <sub>D</sub> 20957	Foot Lifter Lifting Lever Hinge Screw
	for 122083
$871E\ 20957$	Foot Lifter Lifting Lever Stop Screw
	for 122083
896E 20957	Crank Connecting Rod Adjusting Screw
	for 122012
$896e\ 20957$	Thread (looper) Controller Eccentric
	Connecting Rod Cap (large) Screw for
	132347
898F 20951	Presser Foot (left) Screw
898F 20951	" (right) Screw
1036c 20957	Feed Eccentric Set Screw for 132314
1036c 20957	Looper Eccentric Set Screw for 132322
1036c 20957	Spreader Eccentric Set Screw for 132322
1042c 20956	Thread (looper) Guide Roller Screw
1042c 20956	" (upper) Guide Roller Screw
1120c 20957	Looper Set Screw for 132325
1120c 20957	Spreader Set Screw for 132337
1120c 20957	Thread (upper) Take-up Stripper Set
11200 2000.	Screw
1253c 20954	Presser Bar (left) Collar Set Screw for
12000 2000 2	124193
1258c 8801	Feed Bar Hinge Pin Set Screw for 132311
1258c 8801	" Lifting Cam Set Screw for 122023
1258c 8801	" Rock Shaft Hinge Pin Set Screw
12000 0001	for 132317
1258c 8801	Presser Bar (left) Lifting Bracket Set
12000 0001	Screw for 122050
1258c 8801	Presser Bar (right) Lifting Bracket Set
12000 0001	Screw for 122052
1259c 8801	Arm Rotary Shaft Collar Set Screw for
12000 0002	49010
1259c 8801	Looper Gate Hinge Pin Set Screw for
12000 0001	132323 and 132324
1259c 8801	Looper Rock Shaft Hinge Pin Set Screw
12000 000-	for 132325
1259c 8801	Spreader Holder Crank Hinge Stud
22000 0000	Bushing Set Screw
1259c 8801	Spreader Lever Shaft Collar Set Screw
	for 64836
1259c 8801	Thread (looper) Controller Eccentric
	Connecting Rod Ball Stud Set Screw
	for 132351
1396л 20957	Presser Bar Spring Bracket Screw

		PLATE	NAME
	1454E	20958	Needle Bar Connecting Stud Clamping
		20050	Screw for 122045
		20958	Thread (upper) Take-up Screw
	1513J	20958	Crank Connecting Rod Hinge Screw Nut for 122086
	15130	20958	Looper Rock Shaft Connecting Rod Ball
	10100	20900	Screw Stud Nut
	15130	20958	Spreader Lever Ball Screw Stud Nut
		20958	" "Shaft Nut
	1517л	20958	Needle Bar Connecting Link Hinge Stud
			Nut
		20954	Spreader Holder Hinge Screw Nut
		20954	Thread (upper) Pull-off Nut
	1539л	20957	Pressure Regulating Thumb Screw Lock
		200==	Nut
		20957	Feed Regulating Screw Stud Nut
		20957	Needle Clamping Nut
	2653	8812	Feed Eccentric Connection Oil Pad Pin
	4000	20050	for 132315
		20959 20959	Arm Side Cover (back)
	4288	8812	(Hone)
	4/18	8812	Machine Base Cushion (felt) Accessories
	4704	0010	Feed Feed in Company of the North Company
	4784	8812	Feed Eccentric Connection Oil Pad (felt) for 132315
	4879	8811	
	4879	8811	Foot Lifter Chain Connecting Link for 4885
	4881	8810	Foot Lifter Treadle for 4885
	4882	8811	" " Shaft for 4885
	4883	8811	" " Spring for 4885
	4884	8810	" " Stand for 4885
	4885	8810	Foot Lifter Treadle complete for 122083,
			Nos. 4879, 4881 to 4884 and two wood
			screws 1 in. No. 16
	6439		Foot Lifter Chain, 36 in. to 45 in., with
			56864 and 56865, for 122083
	8908	8811	Wrench for 1753 (Accessories)
	8909	8811	" 1513 and 1517 (Accessories).
	9525	8801	Fold Guide Screw Washer
	9525	8801	Guide Screw Washer
	9525	8801	Thread Unwinder Thread Separator
			Bracket Arm Clamping Screw Washer for 150060
	9525	8801	Thread Unwinder Thread Separator
	0020	0001	Bracket Arm Screw Washer for 150087
1	1831	8811	Screw Driver, large (Accessories)
	1001	3311	belew Dirver, large (Accessories)

	PLATE	NAME
16069	20961	Foot Lifter Lifting Lever Spring for
		122083
26026	8811	Screw Driver, small (Accessories)
27739	20962	Thread Unwinder Thread Cone (wood)
		for large cones, for 150088
38468	20965	Presser Bar Spring Stud
42005	20965	Looper Gate Lock Spring for 132308
42007	20954	Presser Bar Lifter Hinge Pin
42053	20954	Spreader Holder Crank Hinge Stud
42053		Tension (looper) Controller Lever Hinge
12000	20001	Stud
42077	20058	Looper Rock Shaft Connecting Rod
42011	20300	Guide
42077	20050	Spreader Lever Connecting Rod Guide
42077	20958	for 132341
10000	20056	Tension (looper thread) Spring.
42336		Arm Rock Shaft Bushing (back)
49003	8801	" " (intermediate).
49004	8801	" " Flanged Bushing (front)
49005	8801	" Rotery Sheft Coller with two
49010	8801	Hotary Share Conar with two
90000000000		1259c
	8801	Arm Rotary Shaft Bushing (front)
49012	20959	" " Flanged Bushing
		(back) with 49013 and 49093
49013	8812	Arm Rotary Shaft Flanged Bushing
		(back) Oil Pad, short (braided cotton)
		for 49012
49014	8801	Arm Rotary Shaft Flanged Bushing
		(intermediate)
49031	8801	Feed Regulating Screw Stud Sleeve
49032	8801	" " Washer
49057	20958	Needle Bar Connecting Link Hinge Stud
49079	20958	Wrench for 1714 (Accessories)
49079	8812	Arm Oil Tube with 49092, for oiling
49091	0012	Crank Connecting Rod (lower bearing)
	2212	
49092	8812	Arm Oil Tube Packing (felt) for 49091
		and 52630
49092	8812	Cloth Plate Oil Tube Packing (felt) for
		132306
49093	20964	Arm Rotary Shaft Flanged Bushing
2000		(back) Oil Pad, long (braided cotton)
		for 49012
49095	8812	Machine Base Thumb Screw Washer for
49090	0012	50144
*10000		Crank Connecting Rod Cap for 122012
*49099		Needle Bar Connecting Link
49101	20958	Needle Dar Connecting Link

NO.	PLATE	NAME
49109	8801	Crank Connecting Rod Adjusting Washer
		for 122012
49123	8812	Machine Base Oil Pipe for 122080
49124	8812	" Valve for 122080
500860		Feed Regulating Screw Stud
501443	8811	Machine Base Thumb Screw with 49095
		(Accessories)
501470	20957	Crank Connecting Rod Hinge Screw for
		122086
50261c	20956	Tension (looper thread) Screw Stud for
50001	00070	132360
502610	20956	Tension (needle thread) Screw Stud for
50407-	20057	132360
50467F 50468E		Cloth Plate Screw
50562c		Sangadan Haldan Hinna Sangadan Haldan Haldan Hinna Sangadan Haldan Haldan Hinna Sangadan Haldan
505020		Spreader Holder Hinge Screw
000020	20900	Screw for 132303
505820	20055	Arm Rock Shaft Crank (front) Position
000020	20300	Screw for 122099
51157c	20955	Arm Rock Shaft Crank (back) Set Screw
011010	20000	for 132303
51157c	20955	Arm Rock Shaft Crank (front) Set Screw
0110,0	20000	for 122099
51570c	20956	Tension (looperthread) Regulating Thumb
		Nut for 132360
515700	20956	Tension(needlethread)RegulatingThumb
		Nut for 132360
52045	20964	Arm Oil Tube Packing (wick) for 52084
		and 56003
52084	8812	Arm Oil Tube with 52045, for oiling Arm
		Rock Shaft Intermediate Bearing
52630	8812	Arm Oil Tube with 49092, for oiling
		Crank Connecting Rod (upper bearing)
52716	20953	Feed Bar Hinge Pin
52716c		Looper Gate Hinge Pin for 132308
55034	20958	Thread (looper) Controller Eccentric
		Connecting Rod Guide for 132367
56003	8812	Arm Oil Tube with 52045, for oiling
		Needle Bar Connecting Link
56864	8811	Foot Lifter Chain Hook (large) for
		6439
56865	8812	Foot Lifter Chain Hook (small) for
*****		6439
58800	20956	Thread (looper) Guide Roller
59033	20954	Presser Bar (left) Bushing (lower)
59033	20954	" (right) Bushing (lower)

NO.	PLATE	NAME
	20956	Tension (looper, thread) Spring Bushing.
	20956	" (needle thread) Spring Bushing
64805	8812	Arm Rotary Shaft Oil Pad (braided
0.2000		cotton) for Front Bearing
64805	8812	Arm Rotary Shaft Oil Pad (braided
		cotton) for Intermediate Bearing
64836	20954	Spreader Lever Shaft Collar with two
		1259c
68350	20964	Looper Rock Shaft Hinge Pin Oil Cup
68350	20964	Spreader Lever Connecting Rod Oil Cup
		for 132341
120341	20964	Tweezers (curved) Accessories
120344	8811	Oiler (copper plated) with 120345 (Acces-
		sories)
120345	8811	Oiler Spout, 5 in. long, for 120344
	20961	Fold Guide for 120896
120896	20961	Fold Guide complete, Nos. 120895,
		132320 and two 217J
122003	8801	Arm Rock Shaft Bushing (front)
122007	20963	Balance Wheel, 43% in. diam., with two
100010	20050	430c
122012	20959	Crank Connecting Rod with 896E, 49099, 49109 and two 145E, for 122086
100010	00079	Feed Bar Extension for 132311
122016		" " Oil Pad (braided cotton) for
122017	20964	132311
122023	8801	Feed Lifting Cam with 1258c
122026	8801	" Rock Shaft Hinge Pin Bushing
122042	20962	Needle Bar (hollow)
122043		" " Bushing (lower)
122044		" " (upper)
122045		" " Connecting Stud with two
		1454E
122048	20962	Presser Bar (left)
122049	20954	" " Bushing (upper)
122049	20954	" (right) Bushing (upper)
122050	20953	" (left) Lifting Bracket with
		1258c
122051	20962	Presser Bar (right)
122052	20953	" " Lifting Bracket with
		1258c
122053	20959	Presser Bar Lifter
122054	20960	" " Spring (flat)
122055	20960	" " Bracket
122057		" Foot (left) Shank for 132333
122060		" (right) Shank for 132335
122062	20956	Tension (looper thread) Disc

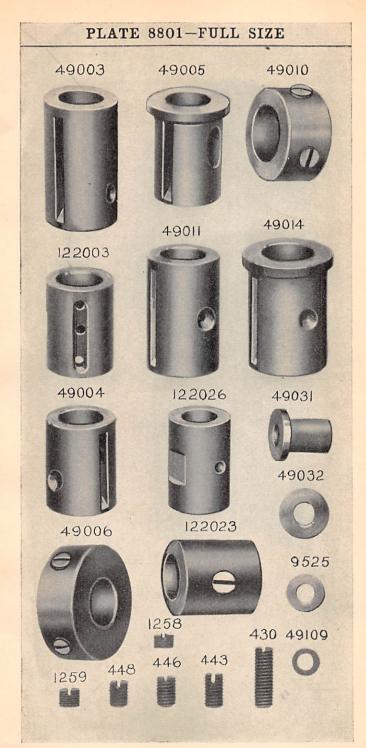
NO. PLATE	NAME
122032 20956	Tension (needle thread) Disc
122063 20956	" (looper thread) Screw Stud
	Sleeve
122063 20956	Tension (needle thread) Screw Stud
	Sleeve
122064 20956	Tension (looper thread) Thread Eyelet
122064 20956	" (needle thread) Thread Eyelet
122065 20965	Thread (upper) Guide (side of arm)
122080 8810	Machine Base with 49123, 49124 and
	three each 50468E and 122084
122081 8810	Foot Lifter Lifting Lever for 122083
122082 20965	" " Connection for
	122083
122083	Foot Lifter complete, Nos. 802D, 871E,
	4885, 6439, 16069, 122081 and 122082
122084 8812	Machine Washer (leather) for 122080
122086	Crank Connecting Rod 122012 with
	1513 <sub>J</sub> and 50147c, for 132368
122097 20963	Arm Rock Shaft
122099 20955	Crank (front) with
	50582c and 51157c
124193 20954	Presser Bar (left) Collar with two 1253c
128845 20964	Spreader Lever Connecting Rod Oil Pad
********	(braided cotton) for 132341
*132301	Arm, upper and lower (solid)
132302 20955	"Rock Shaft Collar with two 443c
132303 20955	Crank (back) with
100004 00000	50582c and 51157c
132304 20963	Arm Rotary Shaft for 132368
132305 20963	Cloth Plate with two 132306, for 132308
132306 20964	" Oil Tube with 49092, for oiling Feed Eccentric Connection, for
120206 00064	132305
132306 20964	oiling Looper Rock Shaft Connecting
	Rod, for 132305
132307 20955	Cloth Plate Slide for 132308
132308	Cloth Plate complete, Nos. 132305,
152506	132307, 132323, 132324, two each
	42005, 52716c and four 217J
132309 20959	Face Plate
132310 20953	Feed Bar for 132311.
132311 —	Feed Bar complete, Nos. 190J, 457c,
102011	1258c, 122016, 122017, 132310, 132312
	and two 704c
132312 20953	Feed Bar Wearing Plate for 132311
132313 20952	" Dog, 13 teeth (5½ teeth to the
	inch) for 132357 and 132359

	PLATE	NAME
132314		Feed Eccentric with two 1036c " " Connection with 2653.
132315	20961	" Connection with 2653, 4784, 132316 and two 145E
******		
*132316		Feed Eccentric Connection Cap for
		132315 Feed Rock Shaft with two 1258c
132317		
132318		Finger Guard
132319		
132320		" Finger Fold Guide Finger for 120896
132320		Fold Guide Finger for 120890
132321		Looper Eccentric with two 1036c, for
132322	20955	
100000	00077	132365 Spreader Eccentric with two 1036c, for
132322	20955	132366
132323	20963	Looper Gate (left) with 1259c, for
		132308
132324	20963	Looper Gate (right) with 1259c for
		132308
132325	20960	Looper Rock Shaft with two each 1120c
		and 1259c
132326	20962	Looper Rock Shaft Connecting Rod with
		132328, 132329 and two each 127E
		and 158E, for 132365
132327	20958	Looper Rock Shaft Connecting Rod Ball
		Screw Stud (eccentric) for 132365
132327	20958	Spreader Lever Ball Screw Stud (eccentric)
		for 132366
*132328		Looper Rock Shaft Connecting Rod Cap
		(lower) for 132326
*132329		Looper Rock Shaft Connecting Rod Cap (upper) for 132326
100000	00001	Looper Rock Shaft Hinge Pin Bushing.
132330		Presser Foot (left) Finger Guard for
132331	20951	132333:
132332		Presser Foot (left) Plate for 132333
132333	20951	Presser Foot (left, hinged) complete, Nos. 646F, 122057, 132331, 132332
		Nos. 646F, 122057, 132331, 132332
		and two 337J
132334		Presser Foot (right) Plate for 132335
132335	20951	Presser Foot (right, hinged) complete,
		Nos. 646F, 122060 and 132334
	20952	Spreader
132337		" Holder with two 1120c
	20954	" Crank Hinge Stud Bush-
132339	20954	" " Hinge Stud Bush-
		ing

NO.	PLATE	NAME
132340		Spreader Lever
132341		" " Connecting Rod with
102011	20000	171E, 42077, 68350, 128845, 132342,
		132343 and two each 127E and 158E,
		for 132366
*132342		Spreader Lever Connecting Rod Cap
		(lower) for 132341
*132343		Spreader Lever Connecting Rod Cap
		(upper) for 132341
132344	20954	Spreader Lever Shaft
132345	20956	Thread (looper) Controller
132346	20965	" " Eccentric with
		two 200c, for 132367
132347	20958	Thread (looper) Controller Eccentric
		Connecting Rod with 132349, 132350
		and two each 171E and 896E, for
		132367
132348	20958	Thread (looper) Controller Eccentric
102010		Connecting Rod Ball Stud for 132367
*132349		Thread (looper) Controller Eccentric
202010		Connecting Rod Cap (large) for 132347
*132350	-	Thread (looper) Controller Eccentric
20200		Connecting Rod Cap (small) for 132347
132351	20960	Thread (looper) Controller Lever with
		1259c
132352	20956	Thread (looper) Guide Roller Cover
132353	20956	" (upper) Pull-off
132354	20956	" Take-up
132355	20964	" " Stripper
132356	20956	" Eyelet, double (side of arm)
132357	20952	Throat Plate (large needle hole) for
		132313
132358	20961	Feed Rock Shaft Hinge Pin
132358	20961	Looper Rock Shaft Hinge Pin
132359		Throat Plate (small needle hole) for
		132313
132360	-	Tension (looper thread) Screw Stud
		50261c with 51570c
132360		Tension (needle thread) Screw Stud
		50261c with 51570c
132363	20956	Thread (upper) Guide Roller (side of
		arm)
132364	20956	Thread (upper) Guide Roller Cover
132365		Looper Rock Shaft Connecting Rod
		132326 with 132322 and 132327
132366		Spreader Lever Connecting Rod 132341
		with 132322 and 132327

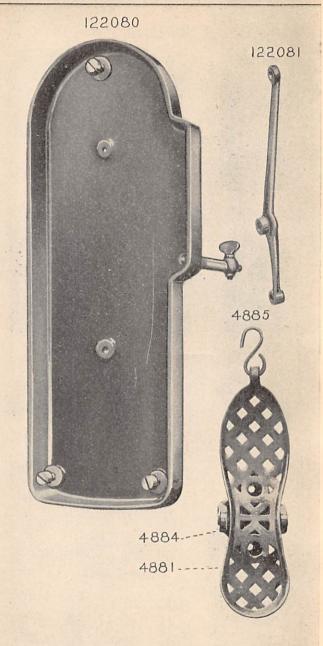
	PLATE	NAME
132367		Thread (looper) Controller Eccentric
		Connecting Rod 132347 with 1931,
		55034, 132346 and 132348
132368		Arm Rotary Shaft 132304 with 122086.
132369		Tension (needle thread) Spring
	20965	Wrench for 132327 (Accessories)
*150059	-	Thread Unwinder Thread Separator
		Bracket for 150086
150060	20787	Thread Unwinder Thread Separator
		Bracket Arm with 1641 and 9525, for
		150087
*150085		Thread Unwinder Thread Separator for
4 70000	00707	150086 Thread Unwinder Thread Separator
150086	20787	150085 with 150059, for 150087
150005		Thread Unwinder Thread Separator
150087		complete for 150088, Nos. 1641, 9525,
		150060 and 150086
	2000	
150088	20787	Thread Unwinder complete, for two
		spools, Nos. 150087, 201696 <i>j</i> , 202490, 225257, 225324, 225326, 225388, two
		each 150203, 225391 and three wood
		screws $\frac{7}{8}$ in. No. 12
150203		Thread Unwinder Spool Rest Cushion
000000	20002	(felt) for 150088  Thread Unwinder Spool Rest Rod Set
2003836	20905	Screw for 202490
2010180	20057	Thread Unwinder Spool Rest Set Screw
2010100	20901	for 225257
201696	20965	Thread Unwinder Thread Guide Lock
2010000	20000	Nut for 150088
202490	20787	Thread Unwinder Spool Stand with
		200383c, for 150088
225257	20787	Thread Unwinder Spool Rest (for two
		spools) with 201018c, for 150088
225322	20965	Thread Unwinder Thread Guide Rod
		Washer for 225324
225324	20787	Thread Unwinder Thread Guide Rod
		with 208E and 225322, for 150088
225326	20965	Thread Unwinder Thread Guide Position
		Cup for 150088
225388	20787	Thread Unwinder Spool Rest Rod for
	20525	150088
225390	20962	Thread Unwinder Thread Cone Holder,
005001	20707	for inverted cones, for 150088 Thread Unwinder Thread Guide for
225391	20787	
		150088

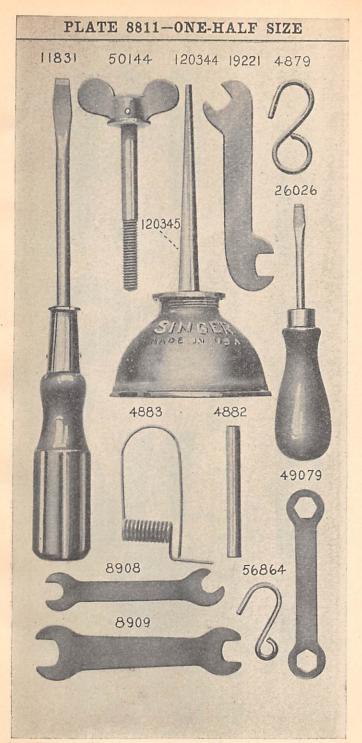
FOR MACHINE No. 159-1



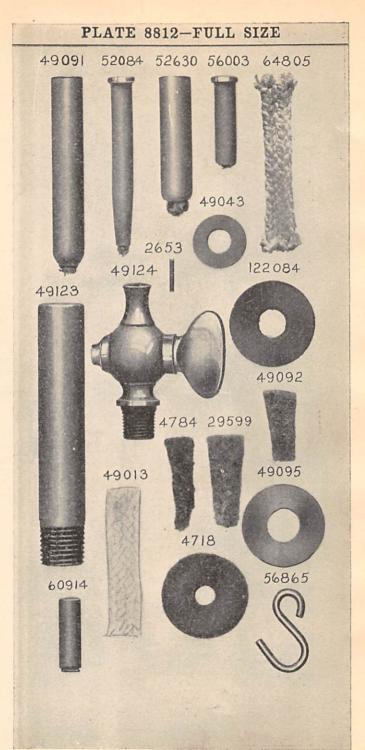
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#### PLATE 8810-ONE-FOURTH SIZE



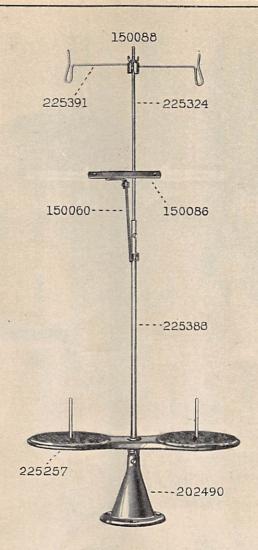


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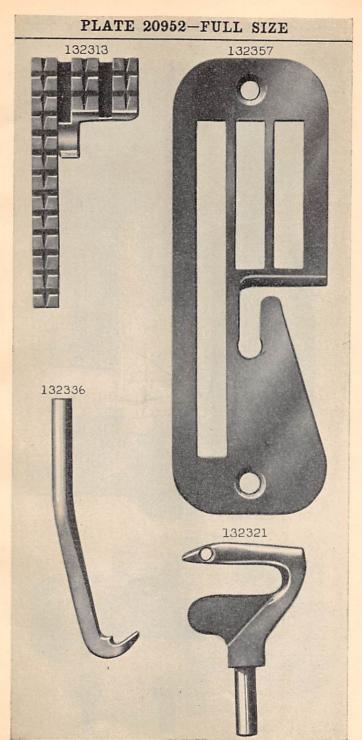
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#### PLATE 20787-ONE-SIXTH SIZE

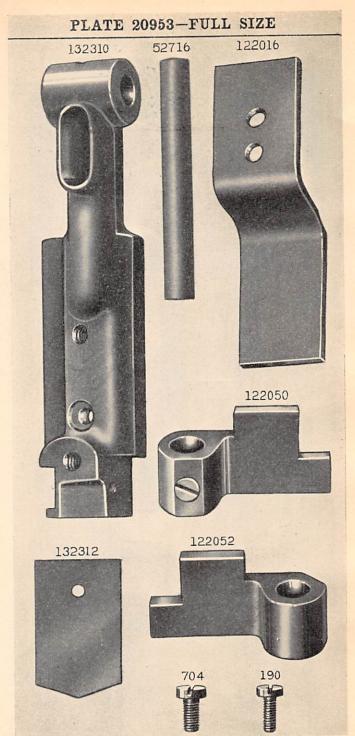


# PLATE 20951-FULL SIZE T

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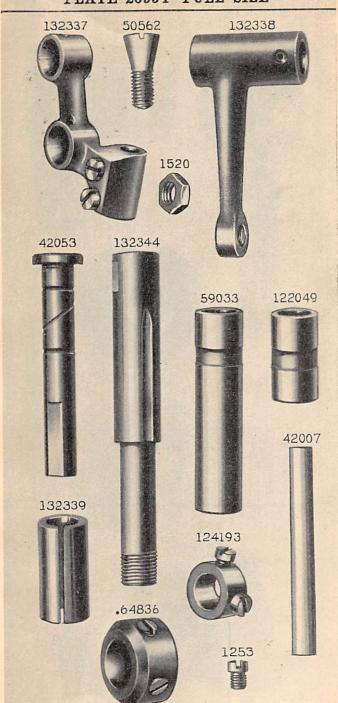


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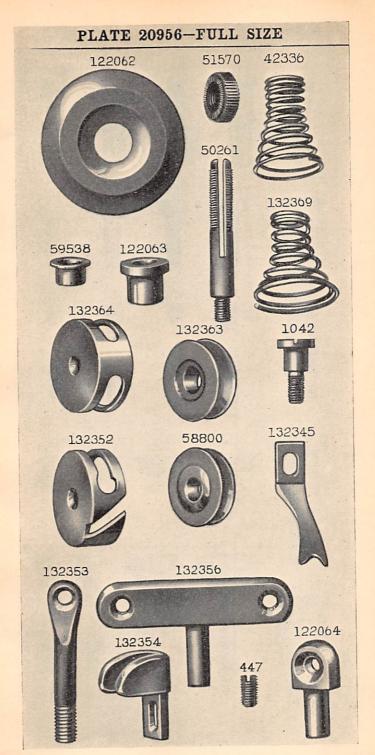
### PLATE 20954-FULL SIZE



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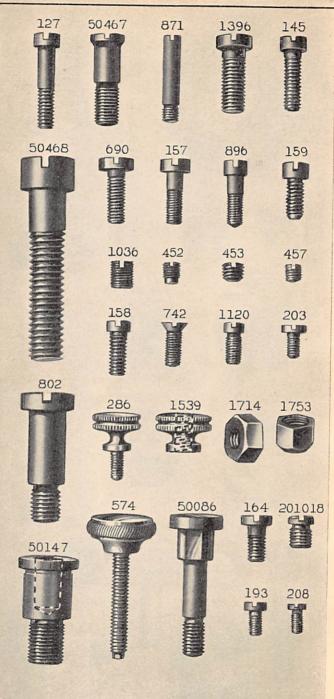
## PLATE 20955-FULL SIZE

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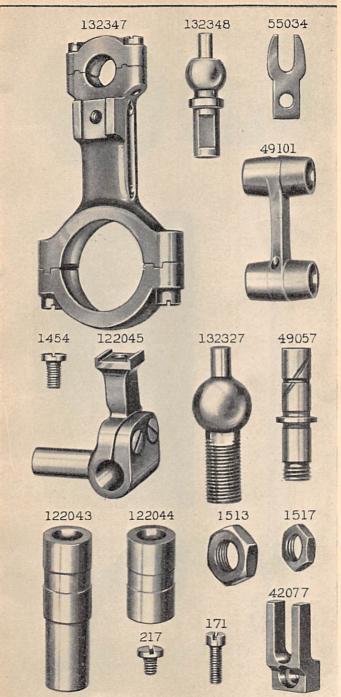
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### PLATE 20957-FULL SIZE



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### PLATE 20958-FULL SIZE



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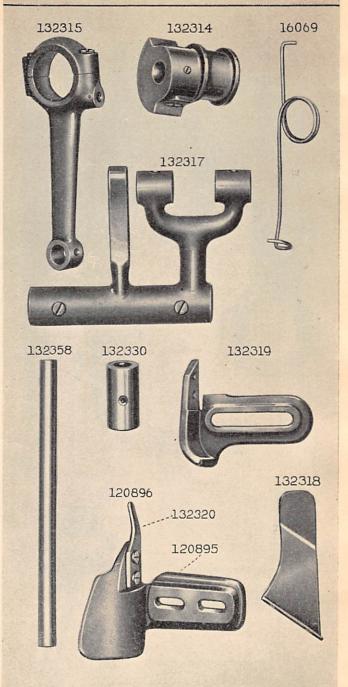
## PLATE 20959-ONE-HALF SIZE

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## PLATE 20960-ONE-HALF SIZE

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### PLATE 20961-ONE-HALF SIZE

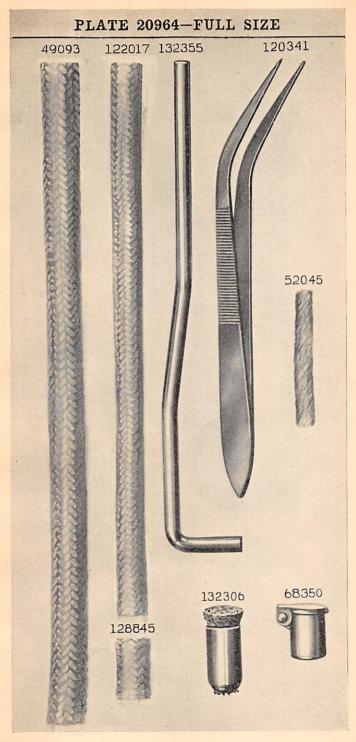


# PLATE 20962-ONE-HALF SIZE 122048 122051 122042 132326 27739 225390

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## PLATE 20963-ONE-FOURTH SIZE

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