



# ADJUSTING INSTRUCTIONS AND ILLUSTRATED PARTS LIST

# FOR COLUMBIA CLASS 300 BLINDSTITCH MACHINES

INSTRUCTION BOOK

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PARTS CATALOG

for



CLASS 300

BLINDSTITCH MACHINES

#### MODELS

300 - 5 300 - 12300 - 10 300 - 14R 300 - 11 300 - 15 300 - 20

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

Second Edition

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Union Special *MACHINE COMPANY* INDUSTRIAL SEWING MACHINES

CHICAGO

New York Office for Columbia Machines - 315 West 35th Street, N.Y. 1, N.Y.

Printed in U.S.A.

#### INSTRUCTIONS for USING this BOOK

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GENERAL INDEX to ALL subjects appears on Pages 3 to 6.

GENERAL INSTRUCTIONS applying to ALL MODELS appear on Pages 7 to 16. These instructions cover adjustments, threading, needle sizes, etc. covering all models.

ADDITIONAL INSTRUCTIONS for EACH MODEL appear on Pages 17 to 31. These instructions cover the special features of each model which do not apply to other models. See INDEX (Page 3) for each model.

#### HOW TO ORDER PARTS

For your convenience in finding parts and part numbers, we have broken down the machine into its various component groups (such as main shaft group, presser foot group, needle drive group). Pictures of these groups are shown in PLATES numbered from A to 33. The Plates are listed in the Index (Pages 4 and 5) with a description of the Group and the model numbers of the machines in which these groups are used.

All the groups used in each model are also listed under the Model heading (See Index Page 3 for each model).

The CROSS-REFERENCE CHART on Pages 33, 34, and 35 show the Groups and the various models in which each group is used.

To find any part number, first refer to the Model number and Serial number stamped into the top cover of each machine. Determine the group in which each part belongs, find the Plate for this group, and locate the part and its number. The descriptions of the parts are on the page opposite each Plate.

If the part number is known, refer to the Numerical Index (Pages 105-108) to locate all of the Plates of Groups where the part is used.

ORDER by PART NUMBER, giving DESCRIPTION, QUANTITY, MODEL number and SERIAL number of the machine.

NOTE: IN ALL CASES, PLEASE SUFFIX THE NUMBER SIGN (#) TO THE PART NUMBER:

EXAMPLE: 23 C 281#, PART NUMBER ON YOUR ORDER IS NOT COMPLETE
WITHOUT THE # SIGN FOLLOWING THE PART NUMBER.

# INDEX

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Section 1

E STORE S

		PAGE							
Adjusting Chart	•••••	10							
Additional Instr	Additional Instructions; See each Model								
Apron, Work		11							
Adjusting Lengt	h of Stitch	12, 12A							
Catalogue, Instr	ructions for Using	1							
Chart for Timin	g and Adjusting	10							
Cloth Clamp		16							
General Instruc	tions, All Models	7 to 16							
Groups, Chart o	of Models and Plates	33, 34, 35							
Instructions for	Using Catalogue	1							
Instructions, Ge	eneral	7 to 16							
Instructions Add	ditional, See Each Model	e*							
Length of Stitch									
Looper Adjustm	ents	9, 13, 14, 15							
MODELS									
Model No.									
300-5	General Utility Machine	17 18							
300-10	Rolled Edge Machine	19 20, 21							
300-11	Pants Bottom Machine	22 23							
300-12	Facing - Tacking Machine	24 25, 26							
300-14 R	Padding MachineAdditional Instructions	27 28							
300-15	Book Seam Machine	29							
300-20	Hemming Machine	30 31							
Needle Sizes		9							
	nents	8							
-									

# INDEX

Tures.

Economic Services

(COS)

Continued

Principal Control of C

Contract

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Annato Company

		PAGE
Needle, Adjustin	g Stroke	-11
Numerical Index	of Part Numbers	105, 108
		7
Operating Machi	ne	7, 8, 9
PLATES		
Plate No's		
A	Sundry Parts - Head and Arm, All Models	36, 37
1	Main Shaft Group - 300-5, 300-10, 300-11, 300-14 R, 300-15	38, 39
2	Main Shaft Group - 300-20	40, 41
3	Main Shaft Group - 300-12	42, 43
4	Looper Drive Group, All Models	44, 45
5	Needle Drive Group, All Models	46, 47
6	"Clock Dial" Stitch Depth Adjustment Group, All Models	48, 49
. 7	Skip Stitch Group - 300-20	50, 51
8	Skip Stitch Mechanism - 300-20	52, 53
9	Presser Foot Group - 300-5, 300-20	54, 55
10	Presser Foot Group - 300-12	56, 57
11	Presser Foot Group - 300-11	<b>58, 5</b> 9
12	Presser Foot Group - 300-14 R	60, 61
13	Presser Foot Group - 300-10	62, 63
14	Presser Foot Group - 300-15	64, 65
15	Work Table and Knee Lift Group - 300-5, 300-15, 300-20	66, 67
16	Work Apron Group - 300-5, 300-10, 300-11, 300-14 R, 300-15, 300-20	68, 69
17	Feed Platten Group - 300-5, 300-11, 300-20	70, 71
18	Feed Platten Group - 300-10	72, 73
19	Feed Platten Group - 300-14 R	74, 75
20	Feed Platten Group - 300-15	76, 77

# INDEX

		PAG	GE
Plate No's			
21	Knee Lift Group - 300-10, 300-11, 300-12, 300-14 R	78,	79
22	Folder Group - 300-10	80,	81
23	Folder Group - 300-15	82,	83
24	Rib Shaft Group - 300-5, 300-10, 300-11, 300-14 R	84,	85
25	Rib Shaft Group - 300-15, 300-20	86,	87
26	Feed Points, All Models	88,	89
27	Right Hand Rib Drive Group - 300-12	90,	91
28	Feed Platten Group - 300-12	92,	93
29	Left Hand Rib Drive Group - 300-12	94,	95
30	Left Hand Rib Adjusting Group - 300-12	96,	97
31	Work Apron Group, Two Rib Machine, 300-12	98,	99
32	Work Support Group - 300-12	100,	101
33	Work Support Bracket Group - 300-12	102,	103
Penetration of Ne	eedle	8,	9
	Iounting on Machine		0, 11
	h Clamp.	15	
	• • • • • • • • • • • • • • • • • • • •	12,	13
			7
	ne	8, 1	2B
	••••	12	
		16	
	***************************************	11	
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#### INSTRUCTIONS FOR THE INSTALLATION, ADJUSTING AND OPERATION OF ALL COLUMBIA CLASS 300 MACHINES.

#### UNPACKING AND SETTING UP OF MACHINE

- 1. To remove the machine from the box, take off the cover. Use a nail puller to avoid breaking the machine. Be sure to look carefully through the material used for packing before destroying it, so that all the parts and equipment that go with the machine will be found. Lift the machine out of the box very carefully to avoid breaking the tension studs, as these parts project beyond the head of the machine. Small parts will be found wrapped in a package.
- 2. Set up the machine; clean away accumulated lint and dust, especially from the looper.
- 3. Place the machine on the bench with the pulley lined up with the transmitter. The machine should be set on the table so that the knee lever is 1/2' from the edge of the table.
- 4. Mark the two holes for the machine screws and bore for the screw holes; bore the hole for the belt; place the felt pad under the machine and fasten the machine to the table, using the two machine bolts in the package of parts shipped with the machine.
- 5. The machine may be run 3000 revolutions per minute; it is suggested, however, that the machine first be operated at about 2500 revolutions per minute until the operator becomes used to the machine, and then step up the machine to increase the speed.
- 6. We reserve the right to change specifications or designs at any time, without incurring the obligation to install such changes on machines previously manufactured.

#### HAND WHEEL

7. The hand wheel turns away from the operator in clockwise direction.

#### OPERATING THE MACHINE

#### OILING

8. Before starting the machine make certain that all oil cups, and all openings marked with red paint, are filled with oil. Should your machine have a Top Plate stamped "OIL" push the plate to one side, oil all the openings, reset and lock the plate.

#### SPEED

- 9. Check the speed of the machine. The machine should run at a minimum speed of 2500 revolutions per minute, and should not exceed 3000 revolutions per minute.
- 10. To be certain that there are no obstructions in and around the machine, press the knee-lifter to the right, turn pulley by hand in the direction of the arrow a complete turn.

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#### THREADING

11. To thread the machine turn the belt pulley by hand until the needle arm is in its highest possible position. Proceed as shown in Threading Chart Page 12B. We suggest #00 mercerized thread.

#### INSERTING WORK

12. To insert work in the machine, press the knee lifter to the right. (This lowers the Apron.) Then place the folded edge or sewed edge of the garment DIRECTLY UNDER the small curved slot in the gauge on top of the presser foot. Once this is done, the rest of the fold should be held against the guide extending in front of the presser foot. In operating the machine, just watch this guide (not the needle).

#### ADJUSTING NEEDLE PENETRATION

- 13. Run off a few test inches and inspect the work. If the needle does not catch the fabric as desired, adjust the penetration by turning the dial indicator marked "MORE" or "LESS", following the instructions below:
- 14. Turn this dial indicator either to the right for less penetration, or to the left for more penetration, until the needle catches the bottom layer of the garment properly.
- 15. Usually it is sufficient to move the dial indicator a few graduations (NOT turns) to the left, to obtain the desired stitch, however, should you move the dial indicator a few graduations and get no results, then look for trouble at the point of the needle, which, very likely, will have been turned up to a feather-edge, causing a dull point that prevents the needle from penetrating the fabric properly. Pass your finger over the edge to see if the needle has this feather-edge. If it does, discard the needle.

#### NEEDLE REPLACEMENT

- 16. Before inserting the new needle, turn the dial to the right, ("LESS") until the rib, or plunger, remains clear of the needle, or else the needle will get a defective point again as soon as the machine is started.
- 17. When replacing the needle, make sure that it is pushed up as far as it will go, and tighten the screw. Then turn the belt pulley slowly and look to see that the full bend of the needle in back of the eye, rides on the needle guide before the needle enters the work. If it does not, take the needle out and curve it just enough to make it rest on the guide, under a slight tension.

#### STARTING TO SEW

18. You are now ready to proceed with the production. Press the knee-lifter to the right; insert the work as explained above, release the knee-lifter, and guide the work as the machine pulls it from you.

DO NOT touch the knee-lifter while the machine is in operation.

#### LOOP SKIPS

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19. In case the thread breaks too frequently, or the loop skips, or the fabric gathers, correct this fault by adjusting the tension disc by turning the nut either right or left until you get a smooth line.

#### REMOVING WORK

20. To remove the work after stitching, see that the needle is withdrawn entirely from the fabric, push the knee-lifter to the right, and remove work with a quick pull away from you, in order to break the thread and lock the stitch.

#### NEEDLE SIZES

21. Needles are furnished in the following sizes, order by size number.

NO.		NO.
1 2 2	0	$3\frac{1}{2}$ $4$ $4\frac{1}{2}$

Ordinarily, sizes  $2\frac{1}{2}$  and  $3\frac{1}{2}$  needles will serve the purpose. A full range of needle sizes are, however, available to meet all requirements.

22. Use ONLY genuine COLUMBIA needles. Look for the copyrighted word Columbia printed on each box of needles.

#### THREAD

23. Use any good grade of left-twist three cord hard finish cotton thread in sizes 70 to 100. We recommend No. 00 Mercerized thread or its equivalent. If silk thread is used, select either "00" or "000".

#### REGULATOR FOR DEPTH OF NEEDLE PENETRATION

24. The needle penetration adjustment is located on the front of the arm column of the machine, and is a dial that has graduations, show the word "MORE" which indicates the direction in which to turn the dial lever for a deeper needle penetration; and the word "LESS" which indicates the direction to turn the dial lever to obtain less needle penetration in the work. (See work apron adjustments for setting regulator).

#### TIMING

25. All basic driving parts are properly timed with spot screws.

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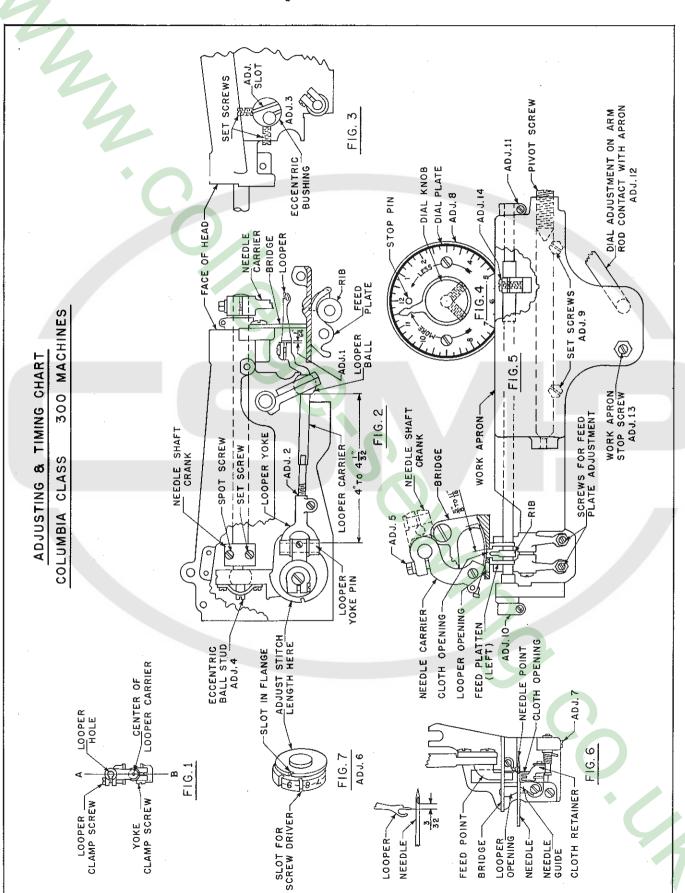
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#### PRESSER FOOT

- 26. The presser foot must be mounted on the machine with care. It is clamped to the head of the machine by a screw under the head, and with two screws on the end of the head, that clamps the foot bridge to the machine. The screw between the bridge screw is eccentric, and is for adjusting the foot up or down.
- 27. To mount the presser foot, assemble with the four screws. Let the two bridge screws hold the foot loosely, and tighten the clamp screw under the head. Now using the eccentric screw, adjust the foot as follows:
- 28. With a new  $3\frac{1}{2}$  size needle in the needle arm, rotate the hand wheel in clockwise direction until the point of the needle is over the needle guide. Turn the eccentric screw and adjust the foot up or down until the needle just contacts the needle guide, and tighten the bridge screws. Back up the needle until the point of the needle is in looper opening; there should be a maximum of .005 between the needle and bottom of the needle groove on the left hand side of the presser foot. Rotate the hand wheel in clockwise direction until the point of the needle is 5/8° to 11/16° from the right hand side of the cloth opening. At this position there should be from .001° to .003° clearance from the bottom of the needle groove to the needle.
- 29. Re-check the needle clearance on the right and left hand side of the presser foot and if not correct, loosen the two bridge screws, and twist the foot by hand to obtain the correct needle clearance, and tighten screws making sure that the needle is in light contact with the needle guide.

#### ADJUSTING NEEDLE STROKE

- 30. Rotate hand wheel in clockwise direction until needle carrier is on extreme left hand end of needle stroke, insert and clamp a  $3\frac{1}{2}$  size needle into the needle arm. Rotate hand wheel until the point of the needle is even with the left hand side of the looper opening in the presser foot, this setting is made by loosening the needle arm set screw and slipping the needle arm so that the point of the needle is even with the looper opening. The rear side of the needle must clear the needle groove .005".
- 31. Continue to rotate hand wheel until the needle is at the end of needle stroke on the right hand side, see figure 5; at this position the point of the needle must be from 5/8" to 11/16" from the right hand side of the cloth opening on the presser foot. This setting is made by loosening the clamp screw holding the needle ball in the needle shaft crank, and turning the eccentric ball until the point of the needle is set correctly. See figures 2 and 5, adjustment 4 and 5.
- 32. The needle must be in contact with the needle guide when the needle point is from 1/64" to 1/32" from the left hand side of the cloth opening in the presser foot, Figure 6.

#### WORK APRON

33. Adjust work apron so that left hand feed platten is flush with left hand side of cloth opening in presser foot. The adjustment is made by loosening two hexagon set screws in up right arm of the machine base, under the work apron holding the work apron shaft; slide the apron in correct position, and tighten the two set screws, Adjustment 9, Figure 5.

- 34. Set needle over highest part of rib, and adjust work apron to raise needle from the needle guide 1/64". The adjustment is made with the work apron stop screw. Adjustment 13, Figure 5. When set tighten lock nut.
- 35. Now set regulator for depth of needle penetration with needle over the rib, and work apron set so that the needle is raised 1/64" above needle guide. Set dial knob so that pointer is against stop pin at 12 on the dial. To make the setting loosen two set screws in the dial knob and turn the pointer to come in contact with the left hand side of the stop pin and tighten the set screw. See Adjustment 8, Figure 4.

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- 36. The above adjustment must be carefully made as it limits the height the rib can be raised and will avoid blunting needle points.
  - 37. For General sewing the pointer will usually be about No. 9 on the dial.

#### FEED PLATTEN

38. Set feed platten, figure 5, so that they will depress 1/32" when in contact with the bottom of presser foot, after adjustment of foot and apron has been made. The setting is made by adjusting the feed platten carrier adjusting screws, and tighten lock nuts.

#### FEED

39. To set depth of feed, figure 6, adjustment 5, first turn hand wheel until needle point when approaching from the left is flush with left hand side of cloth opening in presser foot. Loosen the two feed clamp screws, and set feed so that a .003" shim or newspaper will just be clamped between the top of feed plate, and the bottom of the presser foot. The feed points must be parallel with bottom of foot, tighten the feed clamp screws, and check clearance between feed and looper at all positions.

#### LENGTH OF STITCH

- 40. The length of stitch is adjustable from 3 stitches per inch to 8 stitches per inch, by turning a numbered regulator on the main shaft in the rear of the head. See figure 7, adjustment 6, and chart on page 12A.
- 41. To make the adjustment, remove the rear head cover and loosen the regulator clamp screw, insert a screw driver in a slot in the regulator, hold firmly and turn the hand wheel so the number desired is opposite the notch milled into the flange beside the regulator, and tighten the clamp screw of regulator.
- 42. As the depth that the feed is set below the presser foot affects the length of stitches, the numbers on the feed regulator do not indicate the stitches per inch. Setting the regulator on number 9 will equal about 3 stitches per inch, and setting regulator on number 5 will equal about 8 stitches per inch.

#### THE RIB

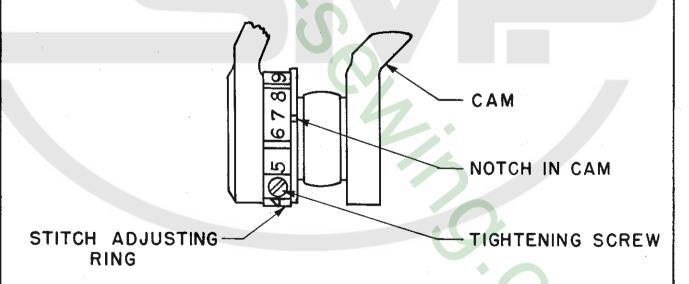
43. The function of the Rib is to present the work into the path of the needle, and is adjustable relative to the needle by turning the regulator dial lever "MORE" or "LESS" for depth of needle penetration.

TO ADJUST THE LENGTH OF STITCH:

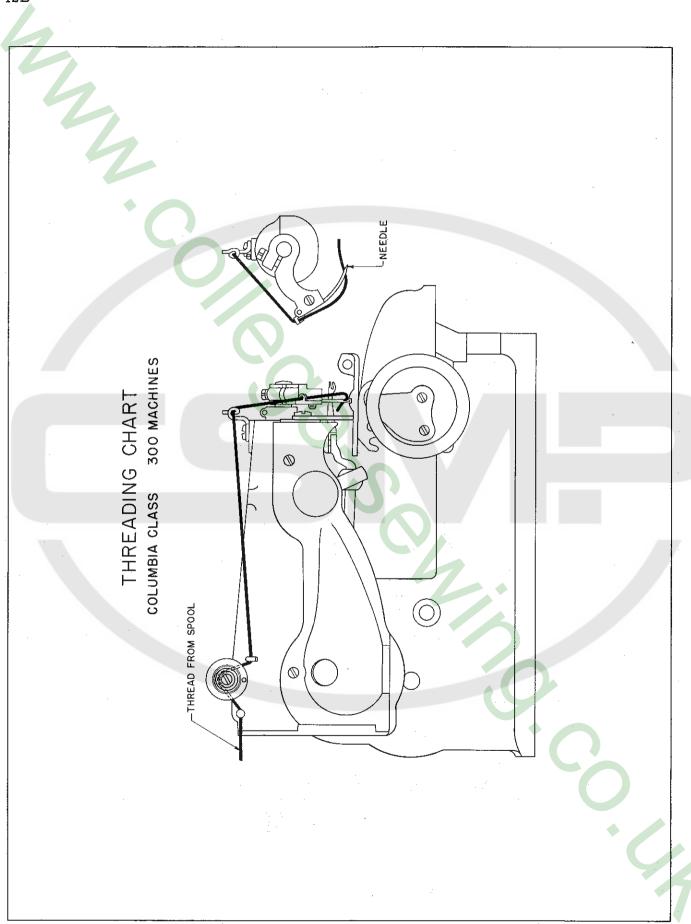
1 -- Remove rear cover.

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- 2 -- Loosen screw on stitch-adjusting ring.
- 3 -- Find notch on cam by turning hand pulley, then stop.
- 4 -- Insert screw driver in any slot on the stitch-adjusting ring and press down from the notch on the cam for a short stitch.
- 5 -- Tighten screw, then try the stitch.
- 6 -- To select the proper length repeat the operation.
- 7 -- For best results move the stitch-adjusting ring the amount as indicated and tighten when stamped number is in line with the notch on the cam.



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44. The Rib must be set to be 3/32" from the right hand side of the cloth opening in the
presser foot. The adjustment is made by loosening the clamp screws of the Collars on each
end of the rib shaft, see adjustment 10 and 11, figure 5. Set the rib in center of the cloth open-
ing and tighten clamp screws. There must be no end play in the rib shaft.

- 45. If the machine is a 1-to-1 machine that is, the needle penetrates the body fabric of the garment on every stitch, the rib must be set so that when the needle point is over the center of the rib, the needle point is 3/32' back from the nose of the rib. The adjustment is made as follows:
- 46: Rotate hand wheel in clockwise direction until rib is at extreme end of its stroke with nose of rib under the needle. Loosen clamp screw in crank, adjustment 14, figure 5, and set rib by hand so that point of needle is 3/32" back from nose of rib, and tighten clamp screw.

#### LOOPER

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47. The correct setting of the looper is of greatest importance. Refer to "Adjusting and Timing Chart". Page 10. The looper carrier assembly consists of:

Looper Yoke - in which are the looper yoke pin holes.

Clamp Screw.

Looper Ball.

#### Looper Carrier

- 48. The looper carrier and looper yoke are set before assembling these parts into the machine. Now, the looper ball is positively located on the shaft of the looper carrier by a spot screw. The looper carrier is assembled to the looper yoke, so that the distance from the edge of the looper yoke pin nearest the looper ball, to the side of the looper ball nearest the looper yoke will be 4 to 4-1/32 (See Adjusting Chart, Figure 1, Adjustment 2.) The looper hole must be in line with center of looper carrier as shown in Figure 1.
- 49. The looper is mounted in the looper carrier assembly; allow 1/64" space between looper shoulder and end of looper carrier. (See Figure 2, Adjustment 1.) The Correct assembling of this unit must be understood in case for any reason it is necessary to remove or replace this assembly.
- 50. The looper has means for the following adjustments, which, for reference to the drawing, are numbered as follows:

#### Adjustment 1

51. Means for adjusting the looper in and out.

#### Adjustment 2

52. Means for adjusting the looper position on the right hand side, or when the looper is taking the loop from the needle.

# Adjustment 3

- 53. Means for adjusting the looper position on the left hand side, or when the needle is between the prongs of the looper.
  - 54. Means for adjusting the position of the looper from left to right, or right to left.

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55. Before setting the looper, the looper carrier assembly must be in accordance with instructions for Figure 1, and Figure 2, and the needle setting must be as described in adjustments 4 and 5, Figures 2 and 5.

### ADJUSTING AND SETTING THE LOOPER

- 56. To secure the correct adjustment of the looper, the following steps should be taken and in the same sequence as here given:
  - 57. The looper is first adjusted as the looper is taking the loop from the needle.
- 58. The position for the long prong of the looper is to have the point of this prong 1/16" to 3/32" from the inner end of the needle eye, and the point of the long prong should brush the scarf of the needle slightly.
  - 59. To secure this setting, the following steps and adjustments are taken and made:
- 60. Turn the hand wheel in clockwise direction; that is, the top of the hand wheel will be moved away from the operator very slowly until the long prong of the looper is over the center line of the needle.
- 61. Loosen the looper ball joint shaft eccentric bushing set screw, this will allow the bushing to slide either to the right or left, and to rotate so that the looper can be adjusted up or down, and at the same time the looper can be moved to the right or left. (See Figure 3, Adjustment 3.) that shows that the approximate setting of the eccentric bushing is with the looper shaft hole toward the needle end of the head, and the adjusting slot at an angle, and the slit into the shaft hole near the bottom.
- 62. Slide the bushing until the long prong of the looper is 3/32" from the inner end of the needle eye, and tighten bushing set screw.
- 63. Loosen the looper yoke clamp screw, see Adjustment 2, Figure 2, and roll the looper until the long prong of the looper just brushes the scarf of the needle.

	64.	Check to	see	that	point o	of the	long	prong	of the	looper	just	brushes	the	scarf	of t	he
needle,	and	is 3/32"	from	a the	inner	end	of the	needl	e eye.	See Fi	gure	5.				

- 65. Continue to rotate hand wheel in clockwise direction, until the short prong of the looper is at nearest point when passing chaining finger, not exceeding 1/32" See Figure 6. If the short prong does not clear the chaining finger, or if the clearance is greater than 1/32", then the previous adjustments have not been correctly made, and these should be re-made.
- 66. Continue to rotate the hand wheel in clockwise direction until the short prong of the looper has passed the edge of the looper slot in the foot. If the short prong of the looper does not enter the looper slot in the foot, adjust so that the short prong will clear the edge of the looper slot in the foot by moving the eccentric bushing for the looper, Adjustment 3, Figure 3. Move the bushing the least amount possible so that the short prong clears the edge of the looper slot.
- 67. Care must be taken now as the needle may strike the crotch of the looper when the needle should be entering between the prongs of the looper.
- 68. Continue to turn the hand wheel in clockwise direction until the point of the needle should enter between the prongs, but instead of doing so, strikes the crotch of the looper. The following corrective steps are required:
- 69. The needle must enter between the prongs of the looper, clearing the two prongs about an equal amount.
- 70. In case the needle should not enter about midway of the two prongs to correct this, loosen the eccentric bushing clamp screw, Figure 3, and turn the looper eccentric bushing in Adjustment 3, Figure 3, until the prongs of the looper are about equal distance from the needle. When this setting has been made, tighten the bushing set screw. See Figure 3.
- 71. Continue to rotate the hand wheel in a clockwise direction until the point of the long prong of the looper is over the center line of the needle. Check to see that the point of the long prong of the looper is 1/16" to 3/32" from the inner end of eye of the needle, and that the point of the long prong just brushes the scarf of the needle. In case the above conditions do not exist, the eye must be corrected -- this is done as described in the 56 to 65 paragraphs inclusive under the heading "ADJUSTING AND SETTING THE LOOPER". Be sure to roll the looper Adjustment 2, Figure 2. Do not turn the looper eccentric bushing.
- 72. The machine, as far as the looper and needle are concerned is now ready to sew. Different materials or different threads may cause a slightly variation from the above adjustments, however, there adjustments will give the best results when padding or hemming the more heavy materials. When hemming silks and cotton, however, it may be advisable to set the point of the needle 1/16" Figure 6, instead of 3/32", without changing the looper position by re-adjusting the needle ball stud, Adjustment 4, Figure 2.

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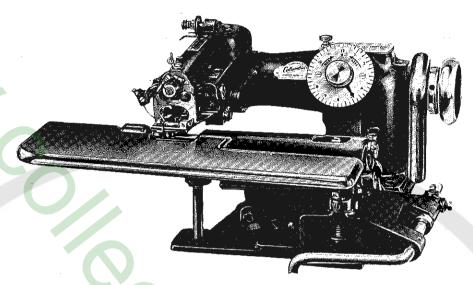
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# RETAINER OR CLOTH CLAMP



#### COLUMBIA MODEL 300-5 - GENERAL UTILITY

#### MACHINE



THE MODEL 300-5

The Model 300-5 is a general utility Blind Stitch machine for general alteration work, and for felling trouser bottoms, bottom of coats, dress hems, etc.

It is an excellent machine for alteration rooms, manufacturers, and for cleaners and dyers.

This model is equipped to sew the base layer or body fabric on every stitch, and is equipped with a work plate for sewing flat work, and the work plate can be swung out of the way for sewing cylindrical work such as pants bottoms and sleeves.

The machine is equipped with a knee lift.

#### INSTRUCTIONS FOR ORDERING PARTS

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The parts have been broken up into groups, and these groups are shown below. Turn to the plate showing the group in which the part to be ordered is located, find the part, and order by part number. Part number on your order is incomplete without the # sign following the part number. Following is list of plates and groups.

PLATE	PAGE	DESCRIPTION OF GROUP
$\mathbf{A}^{-}$	36	Sundry Parts - Head and Arm.
1	38	Main Shaft Group.
4	44	Looper Drive Group.
5	46	Needle Drive Group.
6	48	"Clock Dial" Stitch Depth Adjustment Group,
8	52	Presser Foot Group.
15	66	Work Table and Knee Lift Group.
16	68	Work Apron Group.
17	70	Feed Platten Group.
24	84	Rib Shaft Group,
26	88	Feed Points.

#### COLUMBIA MODEL 300-5

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# ADDITIONAL ADJUSTMENTS FOR MODEL 300-5

Refer to timing chart, page 10.

# STITCH LENGTH

Generally set 3 stitches per inch, #9 on stitch regulator, Adjustment 6, Figure 7.

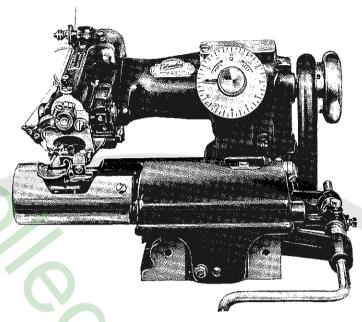
RIB

Set rib in center of cloth opening in the presser foot, Adjustment 9, Figure 5.

# CLOTH RETAINER

Rotate hand wheel clockwise until the rib is at the end of its oscillation, and under the needle. Adjust the cloth retainer to just clear the needle, and center the cloth retainer to the rib. To check this setting, insert a strip of paper on each side of the rib, under the retainer; the retainer must clamp both strips of the paper. See Adjustment 7, Figure 6.

#### COLUMBIA MODEL 300-10 - ROLLED EDGE MACHINE



THE MODEL 300-10

Model 300-10 is a machine specially made for rolled edges or hand rolled hems.

Folders are available in sizes #00, #1, #2 and #3, for producing a rolled edge on the lighter materials, such as used in making scarfs, and for heavier materials, such as light worsteds.

#### The Model 300-10 is used in making:

Scarfs	Slips	Handkerchiefs
Dresses	Housecoats	Table Cloths
Evening Gowns	Play Suits	Napkins, etc.

#### INSTRUCTIONS FOR ORDERING PARTS

Section 2

The parts have been broken up into groups, and these groups are shown below. Turn to plate showing the group in which the part to be ordered is located, find the part, and order by part number. Part number on your order is incomplete without the # sign following the part number. Following is list of plates and groups.

PLATE	PAGE	DESCRIPTION OF GROUP
A	36	Sundry Parts - Head and Arm.
1	38	Main Shaft Group.
4	44	Looper Drive Group.
5	46	Needle Drive Group.
6	. 48	"Clock Dial" Stitch Depth Adjustment Group.

#### COLUMBIA MODEL 300-10

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PLATE	PAGE	DESCRIPTION
13	62	Presser Foot Group.
16	68	Work Apron Group.
18	72	Feed Platten Group.
21	78	Knee Lift Group. ^
22	80	Folders.
24	84	Rib Shaft Group.
26	88	Feed Points.

#### ADDITIONAL ADJUSTMENTS FOR MODEL 300-10

Refer to timing chart, page 10.

#### STITCH LENGTH

Set for 6 stitches per inch, #5 on feed regulator, Adjustment 6, Figure 7.

#### RIB

Set rib .093 (3/32") from right hand side of cloth opening in presser foot, Adjustment 10 and 11, Figure 5.

#### CLOTH RETAINER

Set cloth spring retainer as close to the needle as possible with right hand side of retainer even with right side of rib.

#### FEED

Rotate hand wheel in clockwise direction until end of feed is nearest to the needle. Set end of feed 3/64" from back side of needle.

Set depth of feed 1/32" below, and parallel with bottom of the foot.

#### FEED PLATTEN

Set left hand side of slot in feed platten 1/64" from the left hand side of cloth opening in the presser foot. Adjustment 9, Figure 5.

#### NEEDLE STROKE

Rotate hand wheel in clockwise direction until the needle arm is at the end of its left hand stroke, insert needle in the needle arm, and clamp. Loosen clamp screw of needle arm, and set the point of needle even with the left hand side of looper opening in the presser foot, and tighten clamp screw, Adjustment 5, Figure 5.

#### COLUMBIA MODEL 300-10

Continue to rotate hand wheel in clockwise direction so that needle is at the extreme right hand end of its stroke. The point of the needle when in this position should be from 11/16" to 3/4" from the right hand side of the cloth opening in the presser foot, check, and if not correct, reset by using eccentric ball stud. Adjustment 4, Figure 2.

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#### COLUMBIA MODEL 300-11 - PANTS BOTTOM MACHINE

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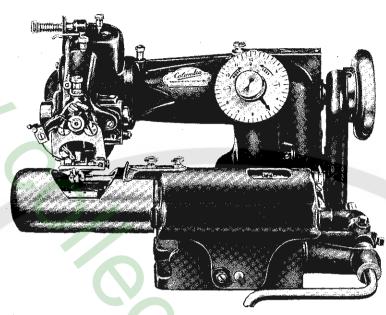
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THE MODEL 300-11

Model 300-11 is specially fitted for felling pants bottoms. It is equipped with a cylinder end cover for handling the pants leg. The edge guides furnished with the machine can be quickly set to make the turn up the desired depth.

The length of stitch is adjustable, and the machine is equipped with a knee lift.

As the machine is intended to sew cylindrical work only, it is not equipped with a work plate.

#### INSTRUCTIONS FOR ORDERING PARTS

The parts have been broken up into groups, and these groups are shown below. Turn to plate showing the group in which the part to be ordered is located, find the part, and order by part number. Part number on your order is incomplete without the # sign following the part number. Following is list of plates and groups.

PLATE	PAGE	DESCRIPTION OF GROUP
A	36	Sundry Parts - Head and Arm.
1	38	Main Shaft Group.
4	44	Looper Drive Group,
5	46	Needle Drive Group.
6	48	"Clock Dial" Stitch Depth Adjustment Group.
11	58	Presser Foot Group.
16	68	Work Apron Group.
17	70	Feed Platten Group.
21	78	Knee Lift Group.
24	84	Rib Shaft Group.
26	88	Feed Points.

#### COLUMBIA MODEL 300-11

# ADDITIONAL ADJUSTMENTS FOR MODEL 300-11

Refer to timing chart, page 10.

# STITCH LENGTH

Set machine to sew 6 stitches per inch. (No. 5 on feed regulator). Adjustment 6, Figure 7.

#### RIB

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Set rib .045 (3/64") from right hand side of rib to left hand side of cloth opening in the presser foot, Adjustment 10 and 11, Figure 5.

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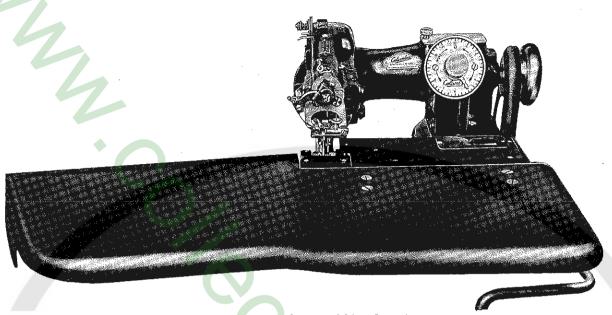
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THE MODEL 300-12

Model 300-12 tacks the facing of women's coats any distance from the edge with a flexible stitch that tacks the facing to the fore part of the coat, holding the garment in shape, and keeps the coat from sagging.

The machine is furnished with a large work plate, and is equipped with a knee lift.

# INSTRUCTIONS FOR ORDERING PARTS

The parts have been broken up into groups, and these groups are shown below. Turn to plate showing the group in which the part to be ordered is located, find the part, and order by part number. Part number on your order is incomplete without the # sign following the part number. Following is list of plates and groups.

PLATE	PAGE	DESCRIPTION OF GROUP
Α	36	Sundry Parts - Head and Arm.
3	42	Main Shaft Group.
4	44	Looper Drive Group.
5	46	Needle Drive Group.
6	48	"Clock Dial" Stitch Depth Adjustment Group.
10	56	Presser Foot Group.
26	88	Feed Points.
27	90	Right Hand Rib Drive Group.
28	92	Feed Platten Group.
29	94	Left Hand Rib Drive Group.
30	96	Left Hand Rib Adjustment Group.
31	98	Work Apron Group, Two Rib Machines.
	100	Work Support Group.
33	102	Work Support Bracket Group.

#### COLUMBIA MODEL 300-12

# ADDITIONAL ADJUSTMENTS FOR MODEL 300-12

Refer to timing chart, page 10.

#### STITCH LENGTH

Set machine to sew 3 stitches per inch, #9 on feed regulator. Adjustment 6, Figure 7.

# PRESSER FOOT

See General Instructions for all Models.

#### NEEDLE STROKE

Set point of needle when at right hand end of stroke, 5/8" to 21/32" from right hand side of cloth opening to the point of the needle, otherwise the same as in General Instructions for all Models. Adjustment 5, Figure 5.

#### LOOPER ADJUSTMENT

Looper adjustments are the same as in General Instructions for all Models.

#### RIBS

There are two ribs in the Model 300-12 machine. The left hand rib raises the body fabric to the needle, and penetration is regulated by the dial knob on the lower part of the apron.

The right hand rib raises the folded facing, including the body fabric (3 ply of material) to the needle, and penetration is regulated by dial knob on the arm.

#### SET RIGHT HAND RIB

Set position of right hand rib .089" (3/32") from right hand side of rib, to right hand side of cloth opening in the presser foot. The setting is made by loosening the two work apron shafts set screws. Adjustment 9, Figure 5, and sliding the work apron until the rib is in correct position.

Set height of right hand rib as follows: First, loosen two set screws in dial knob on arm, Adjustment 8, Figure 4. Set pointer, or hand on top of the stop pin, and tighten one set screw. The knob with pointer can now be turned without the pointer striking the stop pin.

Turn the dial knob in "LESS" direction until the adjustment rod, Adjustment 12, Figure 5, leaves contact with the apron. Turn the hand wheel until the needle point is directly over the right hand rib, remove cover on top of the apron and loosen rib connecting rod clamp screw, Adjustment 14, Figure 5, and rotate right hand rib so that the point of the

#### COLUMBIA MODEL 300-12

needle is 1/32" back of the radius on nose of the rib, and tighten clamp screw. Now, with the needle point directly over the right hand rib, set height so that rib will lift needle .005" from the needle guide by using the apron stop screw, Adjustment 13, Figure 5, tighten lock nut.

Place three thicknesses of sack coat material under the presser foot, and reset the dial regulator on the arm by turning the dial knob in "LESS" direction until one or two strands of the top material is picked up by the needle to produce a blind stitch. When this condition has been achieved, loosen the dial knob set screw, and reset the indicator point to #9 on the dial, and tighten the two dial knob set screws, Adjustment 8, Figure 4.

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Section 1

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#### SET LEFT HAND RIB

Lower left hand rib by turning the dial knob on work apron bracket in "LESS" direction to the lowest position.

Turn hand wheel in clockwise direction until the left hand rib is in its most advanced position, with needle point directly over the rib; now turn the arm dial knob in "LESS" direction until the indicator pointer strikes the stop pin on dial lowering the work apron.

Now, by turning the graduated dial knob above the apron in "MORE" direction, raise the left hand rib until it lifts the needle .005" from the needle guide, and set stop screw for the work apron bracket.

The stop screw, #18-756, is in the right hand arm under the work apron bracket, see plate 30, page 96. First, remove the lock screw, CS320 1/2 on top of the stop screw, and adjust stop screw as above, and replace lock screw.

Turn arm dial knob in "MORE" direction until indicator point is at #9 and with indicator in this position, and by turning the dial knob indicator on work apron in "MORE" direction, raise the left hand rib to blind stitch a single thickness of medium weight sack coat material.

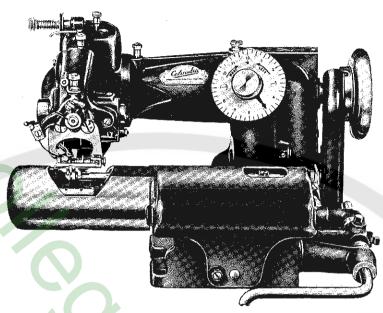
Now set left hand rib so that the needle point is 1/32" in back of the radius on the nose of the left hand rib when at the most forward end of its stroke, and under the needle point. Loosen clamp screw 18-710 in left hand rib crank, 448-133, set rib and tighten clamp screw. See plate 29, page 94.

#### FEED

Set length of stitch with feed regulator on 7 1/2, Adjustment 6, Figure 7. Turn hand wheel in clockwise direction until feed is on end of stroke nearest the needle. Loosen the two feed screws, and set end of feed from 1/8" to 3/16" back of needle. The depth of feed is set by turning hand wheel in clockwise direction, and set feed so that when needle point is 1/64" to the left of cloth opening in the presser foot, the left hand feed platten will clamp a .003" shim or a piece of newspaper.

#### COLUMBIA MODEL 300-14 R

#### PADDING MACHINE



THE MODEL 300-14 R

Model 300-14 R is fitted for padding collar and lapels, and felling bridles.

Presser Feet are available for padding from the lighter to the heavy weight materials.

The machine is equipped with a foot treadle or knee lifter.

As the machine is intended for padding work, a work plate is not furnished with this model.

# INSTRUCTIONS FOR ORDERING PARTS

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The parts have been broken up into groups, and these groups are shown below. Turn to plate showing the group in which the part to be ordered is located, find the part, and order by part number. Part number on your order is incomplete without the # sign following the part number. Following is list of plates and groups.

PLATE	PAGE	DESCRIPTION OF GROUP
A 1 4 5 6	36 38 44 46 48	Sundry Parts - Head and Arm. Main Shaft Group. Looper Drive Group. Needle Drive Group. "Clock Dial" Stitch Depth Adjustment Group.
12 16 19 21 24 26	60 68 74 78 84 88	Presser Foot Group. Work Apron Group. Feed Platten Group. Knee Lift Group. Rib Shaft Group. Feed Points.

#### COLUMBIA MODEL 300-14 R

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# ADDITIONAL ADJUSTMENTS FOR MODEL 300-14 R

Refer to timing chart, page 10.

# LENGTH OF STITCH

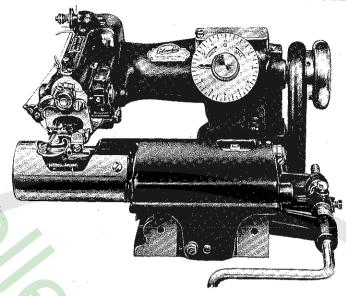
Set machine to sew 6 stitches per inch. (#8 on feed regulator). Adjustment 6, Figure 7.

# RIB

Set rib in center of cloth opening in the presser foot. Adjustment 10 and 11, Figure 5.



# COLUMBIA MODEL 300-15 - BOOK SEAM MACHINE



THE MODEL 300-15

Model 300-15 is fitted for sewing a turned under edge of the seam of a coat (sometimes referred to as book seaming).

This method of finishing the seams of a coat eliminate piping the seam.

The machine is equipped with a work plate, and with a knee lift. (Not shown in photo.)

Folders are available for the various weights of material used in making coats.

#### INSTRUCTIONS FOR ORDERING PARTS

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The parts have been broken up into groups, and these groups are shown below. Turn to the plate showing the group in which the part to be ordered is located, find the part, and order by part number. Part number on your order is incomplete without the # sign following the part number. Following is list of plates and groups.

PLATE	PAGE	DESCRIPTION OF GROUP
A	36	Sundry Parts - Head and Arm.
1	38	Main Shaft Group.
4	44	Looper Drive Group.
5	46	Needle Drive Group.
6	48	"Clock Dial" Stitch Depth Adjustment Group.
14	64	Presser Foot Group.
15	66	Work Table and Knee Lift Group.
16	68	Work Apron Group.
20	76	Feed Platten Group.
23	82	Folder Group,
25	86	Rib Shaft Group.
26	88	Feed Points.



#### COLUMBIA MODEL 300-20 MACHINE

#### HEMMING MACHINE

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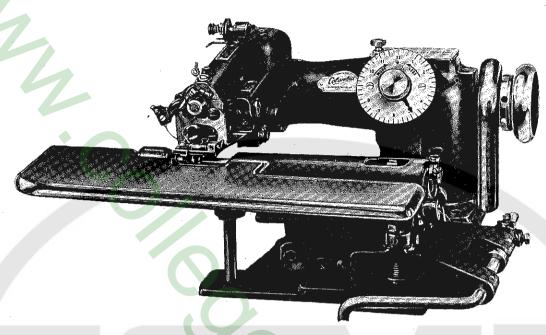
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THE MODEL 300-20

The Model 300-20 is a skip stitch machine for hemming with a two-to-one skip stitch, which means that the needle penetrates the base lay or body fabric every other stitch, and penetrates the hem or folded edge every stitch.

Using the skip stitch method, garments can be sewed equal to, and better than hand work, when the material used is of fair weight, and as the machine was designed to use a curved needle, a blind stitch will be made. On light weight materials, such as dresses made of cotton, silks and rayon, every other stitch will appear on the finished side of the garment as a very small dot, the same as a garment made by hand.

The following operations are examples of work that are produced by the Model 300-20:

Dresses and Blouses - Hemming Bottoms, Sleeves and Felling Facings.

Womens Coats - Felling Linings.

Department Store Alterations - Shortening Dresses.

Lingerie.

Hemming Tailored Bottoms.

# INSTRUCTIONS FOR ORDERING PARTS

The parts have been broken up into groups, and these groups are shown below. Turn to the plate showing the group in which the part to be ordered is located, find the part, and order by part number. Part number on your order is incomplete without the # sign following the part number. Following is list of plates and groups.

#### COLUMBIA MODEL 300-20

PLATE	$\underline{\mathbf{PAGE}}$	DESCRIPTION
A 2 4 5 6 7 8 9 15 16 17 25 26	36 40 42 46 48 50 52 54 66 68 70 86 88	Sundry Parts - Head and Arm. Main Shaft Group. Looper Drive Group. Needle Drive Group. "Clock Dial" Stitch Depth Adjustment Group. Skip Stitch Group. Skip Stitch Mechanism. Presser Foot Group. Work Table and Knee Lift Group. Work Apron Group. Feed Platten Group. Rib Shaft Group. Feed Points.

# ADDITIONAL ADJUSTMENTS FOR MODEL 300-20

Refer to timing chart, page 10.

#### STITCH LENGTH

Generally set 3 stitches per inch, #9 on stitch regulator, Adjustment 6, Figure 7.

#### RIB

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Set rib in center of cloth opening in the presser foot, Adjustment 9, Figure 5.

## CLOTH RETAINER

Rotate hand wheel clockwise until the rib is at the end of its oscillation, and under the needle. Adjust the cloth retainer to just clear the needle, and center the cloth retainer to the rib. To check this setting, insert a strip of paper on each side of the rib, under the retainer; the retainer must clamp both strips of the paper. See Adjustment 7, Figure 6.

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Sundry Parts - Head & Arm	300-5	300-10	300-11	300-12	300-14 R	300-15	300-20
Plate 1 Main Shaft Group	300-5	300-10	300-11		300-14 R	300~15	
Plate 2 Main Shaft Group							300-20
Plate 3 Main Shaft Group				300-12			
Plate 4 Looper Drive Group	300-5	300-10	300-11	300-12	300-14 R	300-15	300-20
Plate 5 Needle Drive Group	300-5	300-10	300-11	300-12	300-14 R	300-15	300-20
Plate 6 "Clockdial" Stitch Depth Adjustment Group	300-5	300-10	300-11	300-12	300-14 R	300-15	300-20
Plate 7 Skip Stitch Group							300-20
Plate 8 Skip Stitch Mechanism							300-20
Plate 9 Presser Foot Group	300-5						300-20
Plate 10 Presser Foot Group				300-12			
Plate 11 Presser Foot Group			300-11				

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GROUPS -	300-5				300-5	300-5	300-5							
		Plate 12 Presser Foot Group	Plate 13 Presser Foot Group	Plate 14 Presser Foot Group	Plate 15 Work Table & Knee Lift Group	Plate 16 Work Apron Group	Plate 17 Feed Platten Group	Plate 18 Feed Platten Group	Plate 19 Feed Platten Group	Plate 20 Feed Platten Group	Plate 21 Knee Lift Group	Plate 22 Folder Group	Plate 23 Folder Group	

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WHERE USED	300-10		300-10								
GROUPS -	300-5		300-5								
	Plate 24 Rib Shaft Group	Plate 25 Rib Shaft Group	Plate 26 Feed Points	Plate 27 Right Hand Rib Drive Group	Plate 28 Feed Platten Group	Plate 29 Left Hand Rib Drive Group	Plate 30 Left Hand Rib Adjusting Group	Plate 31 Work Apron Group Two Rib Machines	Plate 32 Work Support Group	Plate 33 Work Support Bracket Group	

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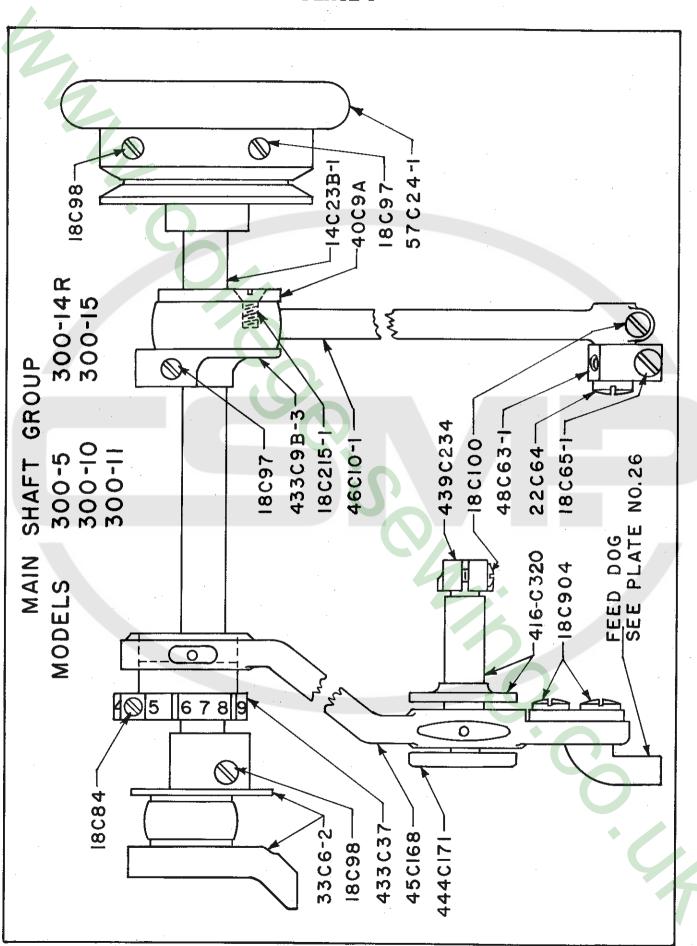
### SUNDRY PARTS - HEAD AND ARM

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### GROUP

300-15 300-20	Clamp Collar for eccentric bushing in head for adjusting looper.	Washer for belt guard.	Thread Guide Front.	Thread Guide Rear.	Tension Disc.	Oil Tube for feed lever.	Tension Staff.	Name Plate on top of arm.	Oil Cups.	Set Screw for rear thread guide.	Screw for name plate on top of arm.	Spring for tension disc.	Screw for clamping eccentric bushing in head for adjusting looper.	Tension Device Complete.
300-11 300-12 300-14 R	39 C 83-1	40 C 213S-3	41 C 75	U	44 C 78		68 C 77-1	97 C 45	125 C 73	1022	1071	1132	1274	468 C 525-1
300-5 300-10	Belt Guard.	Shaft for work apron.	Presser Foot Adjusting Stud.	Screw for clamping feed riser bushing.	Screw for belt guard.	Screw for attaching head to arm.	Screw for front thread guide.	Set Screw for presser foot adjusting stud, 17 C 46.	Screw for side and rear covers on head,	Set Screw for work apron shaft.	Nut for adjusting tension disc.	Pin for front thread guide.	Pin to lock tension disc.	Cover on side of head and rear of head.
PLATE A	8 C 72	14 C 404	17 C 46	18 C 82	18 C 85-2	18 C 87	18 C 88	18 C 94-1	18 C 100	18 C 944	20 C 80-2	22 C 81-1	22 C 81-3	32 C 271



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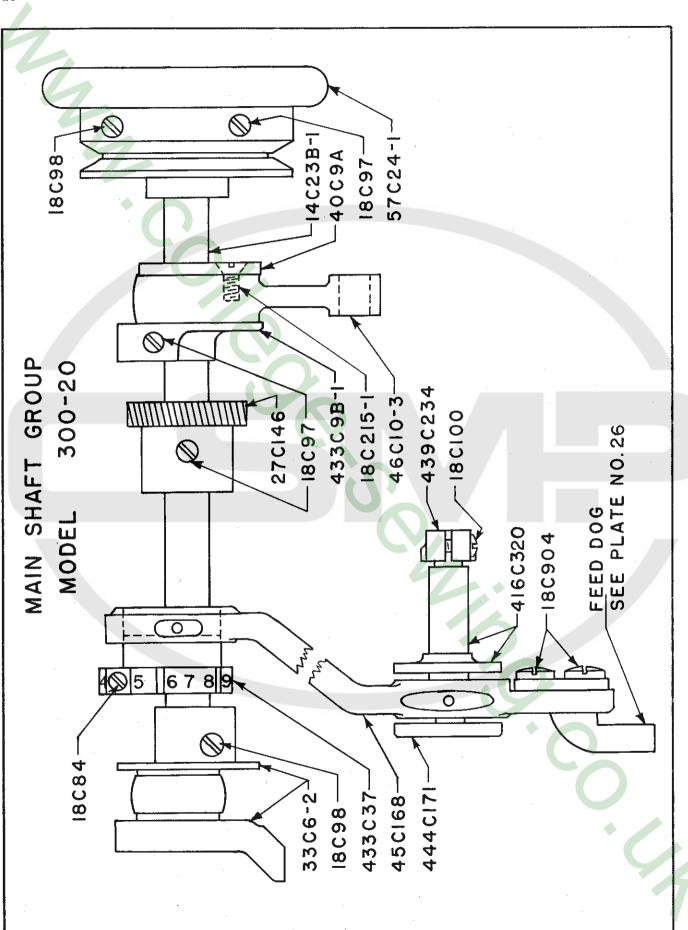
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		300-11 300-14 R	Eccentric on main shaft for feed and needle.	Washer for rib eccentric on main shaft.	Feed Lever.	Rib Shaft Drive Link.	Crank for rib shaft drive link.	Pulley for belt.	Feed Riser Bushing Complete,	Rib Eccentric on main shaft.	Eccentric Sleeve for feed adjustment	Feed Riser Disc Collar.	Feed Riser Disc Complete,	
	MAIN SHAF'T GROUP	300-15	33 C 6-2	40 C 9A	45 C 168	46 C 10-1	48 C 63-1	57 C 24-1	416 C 320	433 C 9B-3	433 C 37	439 C 234	444 C 171	
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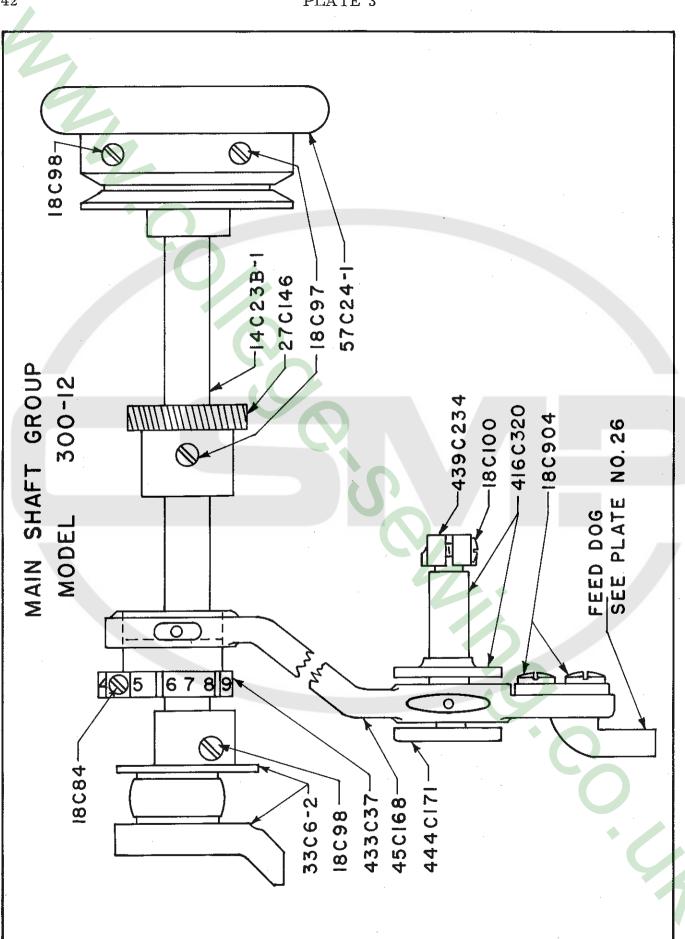
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					Screw for feed adjustment sleeve.	Set Screw (Dog Point) for belt pulley.	or ri	Set Screw (Dog Point) for driving gear on main shaft.	*,°	set screw for eccentric for feed and needle drive.	Screw for feed riser disc collar.	Screw for washer for rib eccentric.		
e constant					ıstm	nt) fo	nt) f(	nt) fo	Set Screw for belt pulley.	atric	er di	orr		
					l adji	r Poi	10년		belt 1	ecce.	l rís	her 1	Ġ.	
				ئب	feed	(Dog	set Screw (Dog on main shaft.	Screw (Dog main shaft.	for	ior ive.	feed	was	Screws for feed.	
				Main Shaft.	v for	rew	erew ain	erew	rew	needle drive.	v for	ν for	vs fo	
				Main	crev	et Se	on K	set Sc on m	et Sc	need.	crev	crev	crev	
			•		<b>9</b> 1	ωï	י גע	J2 -	ທິເ	11	<i>01</i> ,		<i>.</i>	
			臣 2	23B1	84	97			86		001	18 C 215-1	304	
			PLATE 2	14 C	18 C	18 C			18 C		18 C 100	8 C 2	18 C 904	
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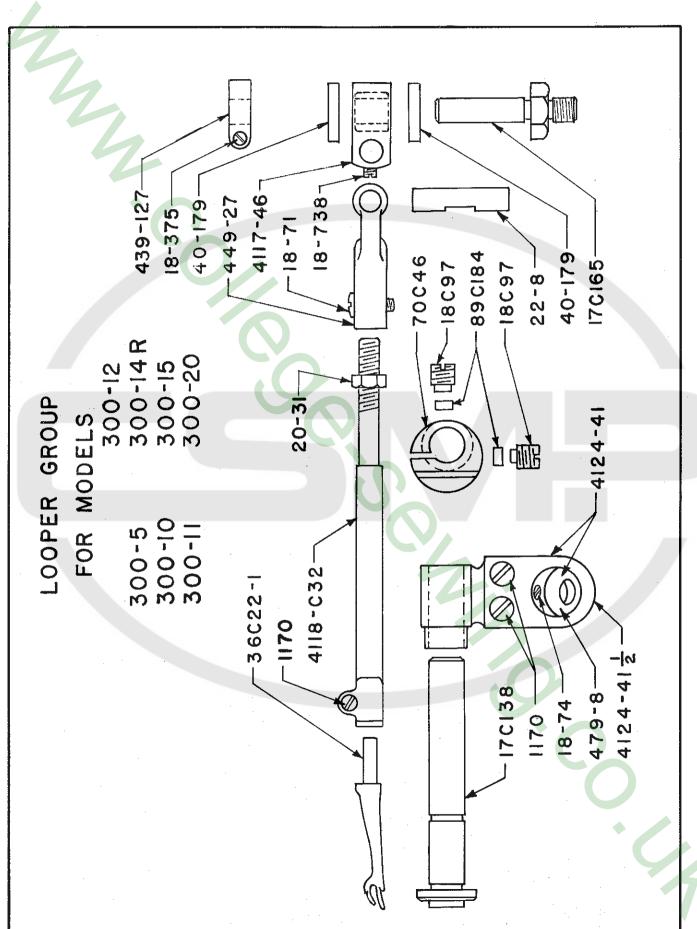
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			MODEL			n sha	e dri				Đ.						
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man .					Screw for feed adjustment sleeve.	Screw (Dog Point) for belt pulley. Screw (Dog Point) for driving gear on main shaft.	Set Screw for belt pulley. Set Screw for eccentric for feed and needle drive.	llar.			Eccentric on main shaft for feed and needle,			e,	Eccentric Sleeve for feed adjustment.		
					nt sl	it pu	for f	င္ င၀]		aft.	for i			nplet	d ad		te.
					stme	or be or dr	ulley	Screw for feed riser disc collar.		Driving Gear on main shaft.	shaft			Feed Riser Bushing Complete.	r fee	llar.	Feed Riser Disc Complete.
Constitution					adju	nt) fo nt) fo	elt p ccen	rise	7.	n ma	ain e			shing	re fo	Feed Riser Disc Collar.	င် င
					feed	g Poi	for b for e	feed	Jeec	ar o	on m	٠.	belt.	Bus	Sleev	Dis	Dis
				23B-1 Main Shaft.	for	(Dog	rew	for	Screws for feed.	g Ge	tric	Feed Lever.	Pulley for belt.	Riseı	tric	Rise	Rise
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			က	23B	84	26	98	00	04	46	6-2	89	24-1	320	37	34	7.1
	-		PLATE 3	14 C	18 C	18 C	18 C	18 C 100	18 C 904	27 C 146	C	45 C 168	57 C	416 C 3	433 C	439 C 234	444 C 171
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		300-15 300-20	Eccentric Bushing in head for adjusting looper.	Plugs for screw to clamp looper eccentric bushing.	Looper Bearing Collar.	Looper Yoke Complete with screw,	Looper Baring Complete.	Ca	Looper Ball Joint Casing.	Looper Ball Joint Complete with 479-8	Screws for looper ball joint casing and for clamping looper.
To read		300	ccentri looper	dent Sant Push	eďoo'	adoor	adoor.	adoor	edoor	edoor	crew for
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	GROUP		46	184	2			32	-1/2		
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			oint S	, 100j p 100	100]	nping shing	oer b	loop	32.	yoke	oper
			Looper Ball Joint Stud.	d for clam	w for	crew for clamping adjusting bushing.	1001	for	Nut for 4118 C 32.	Pin for looper yoke.	Looper. Washer for looper bearing.
			er B	w Stu w to	Scre	w for ustin	w for	crew	or 4	or lo	er. ner f
	·		Loop	Screw Stud for looper bearing. Screw to clamp looper yoke.	Spot Screw for looper ball joint.	Screw for clamping looper eccentric adjusting bushing.	Scre	SetS	Nut 1	Pin f	Looper. Washer
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		TE 4	138	165	<del>√</del> H	97	75	38	<del></del> -		22-1 79
		PLATE	17 C 138	17 C 165 18-71	18-74	18 C	18-375	18-738	20-31	22-8	36 C 2
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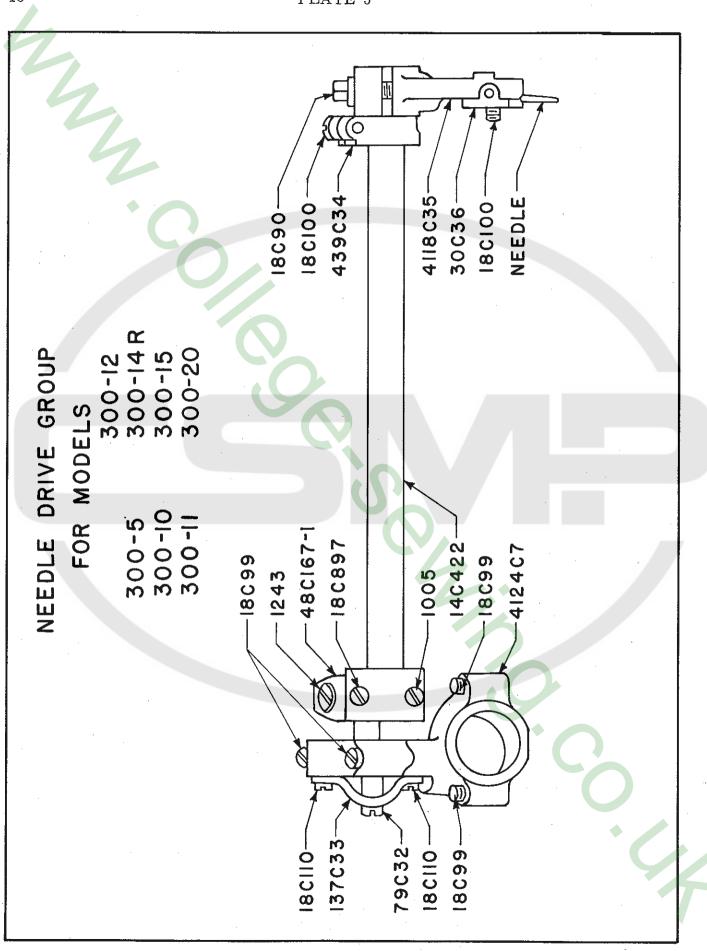
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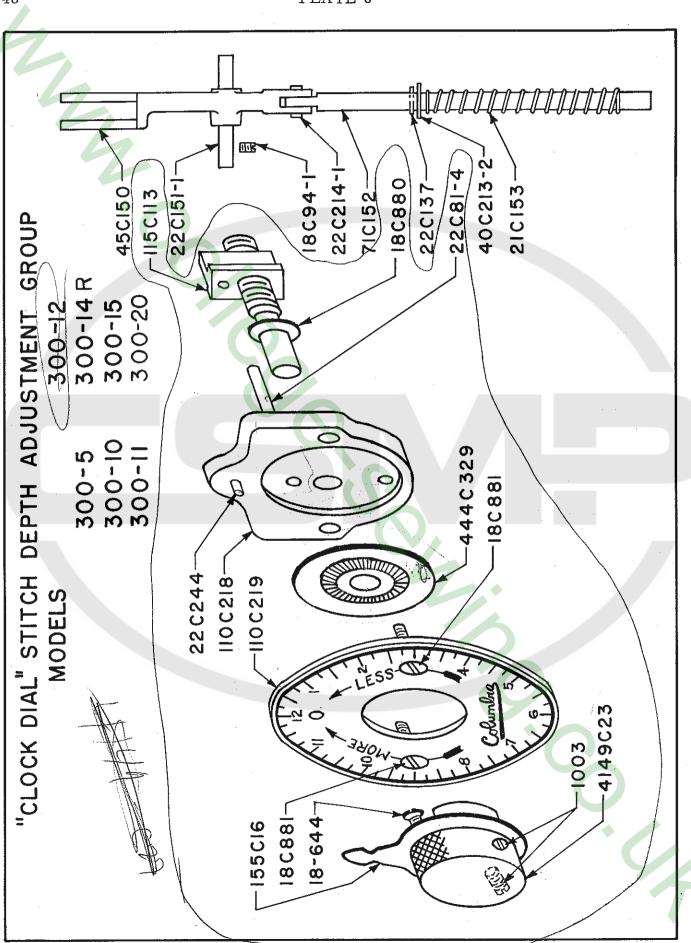
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		DRIVE	MODELS																
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		NEEDLE						.•	Screw for needle shaft eccentric ball retainer					Ξ.			needle shaft.		/
		NE						ollar	all r	, ম		7	ft.	c ba]					rank
						m.	Screws for needle shaft ball joint.	Screw for clamping needle shaft collar. Screw for needle clamp.	ric k	Screw (spot) for needle shaft cran		نبز	Ball eccentric Stud for needle shaft.	Retainer for needle shaft eccentric ball			Ball Joint Casing with screws for	ank.	Screw for clamping needle shaft crank
				300-5 300-10		Screw for clamping needle arm.	all j	e sh	cent	haft		Crank for driving needle shaft.	eedle	ecc			rews	Set Screw for needle shaft crank.	le sh
				300	-	needl	aft b	needl mp.	uft ec	dle s		edle	or n	shaft	aft.		th sc	shaj	need]
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				PLATE	14 C 422	C C	18 C	18 C 1	18 C 110	Ŋ	30 C	48 C 1	79 C	2 C	439 C	S C	4 C	.c	က
				PL	<b>.</b>	18	Ã	<del>-</del>	÷	18	<u>ښ</u>	4	2	137	43	4118	4124 C	1005	1243
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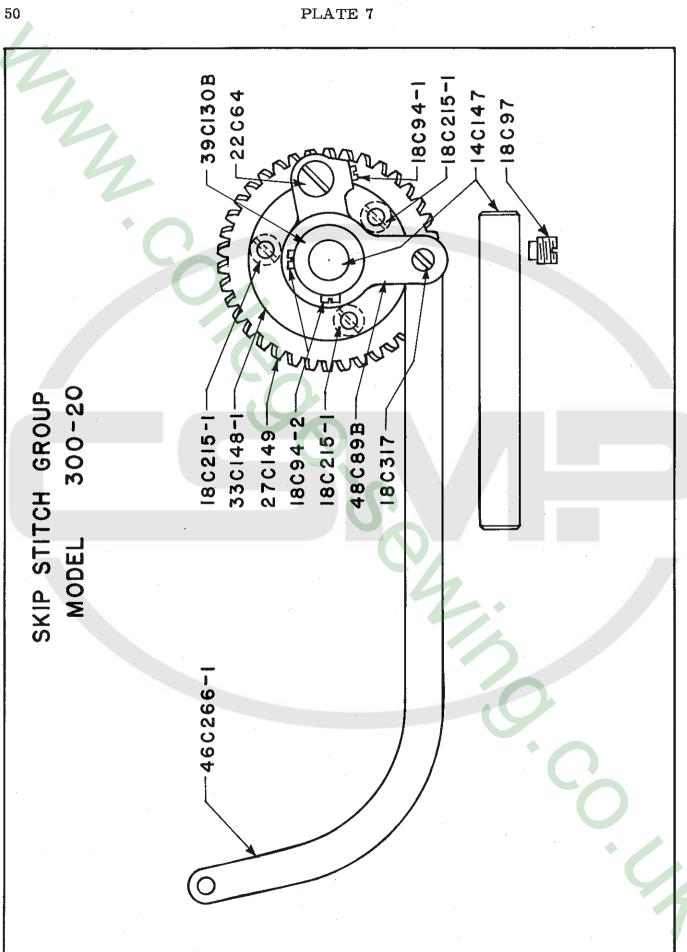
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	300-15 300-20	Fork for rod for moving work apron.		<u> </u>				Ratchet Disc with pin for stitch depth regulator.	Stitch Depth Regulator Knob.	Set Screws for stitch depth regulator knob.	
MODELS	300-11 300-12 300-14 R	40 C 213-2 45 C 150	71 C 152	110 C 218	110 C 219	115 C 113	155 C 16	444 C 329	4149 C 23	1003	4 †
	300-5 300-10	Set Screw for Fulcrum pin for regulator fork, 45 C 150.	Screws for indicator for stitch depth regulator.	Screw for adjusting depth of stitch,	Screws for "Clock Dial" plate.	Spring for stitch depth regulator rod.	Pin Guide in mounting plate for "Clock Dial".	Cotter Pin for spring on stitch depth regulator rod.	Pin Fulcrum for regulator fork.	Hinge Pin for regulator fork and rod.	Pin Stop in mounting plate for "Clock Dial".
	PLATE 6	18 C 94-1	18-644	18 C 880	18 C 881	21 C 153	22 C 81-4	22 C 137	22 C 151-1	22 C 214-1	22 C 244



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SKIP STITCH GROUP

MODEL 300-20

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14 C 147 Shaft for driven gear.

18 C 94-1 Set Screw for crank for rocking rib shaft.

18 C 94-2 Set Screw for collar 39 C 130 B, for driven gear.

18 C 97 Set Screw for driven gear shaft.

115\_1 Screws for accentain to driven gear

18 C 215-1 Screws for eccentric to driven gear.18 C 317 Screw Bearing for rib rocker crank and link.

22 C 64 Pin Bearing for crank for rocking rib shaft.

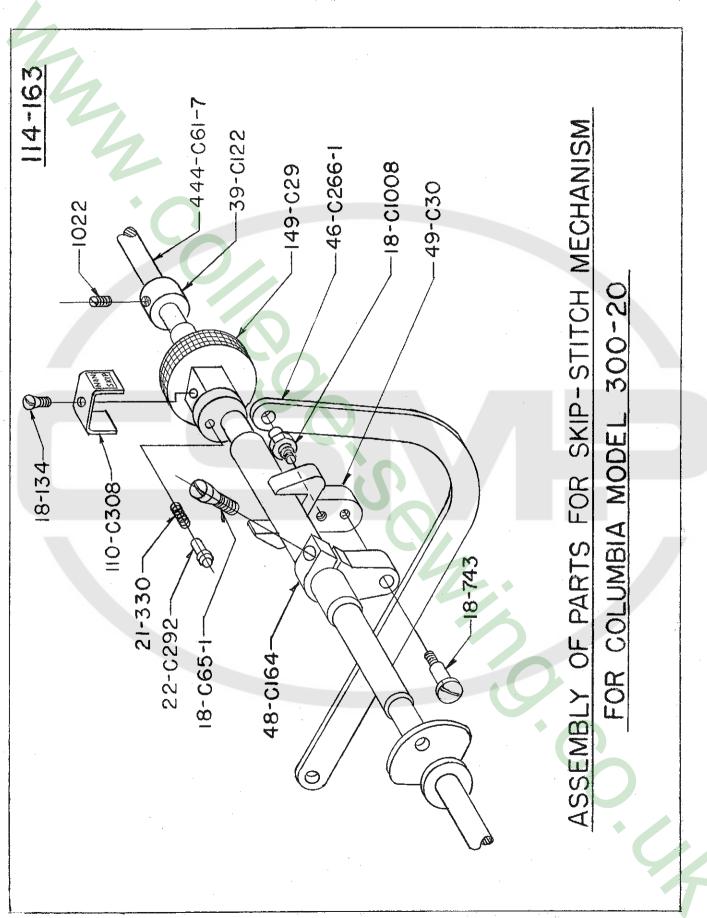
27 C 149 Gear (Driven) for skip stitch rib.

33 C 148-1 Eccentric for skip stitch rib driven gear.

39 C 130 B Collar for driven gear 27 C 149.

46 C 266-1 Link for driving rib shaft.

48 C 89 B Crank for rocking rib shaft.



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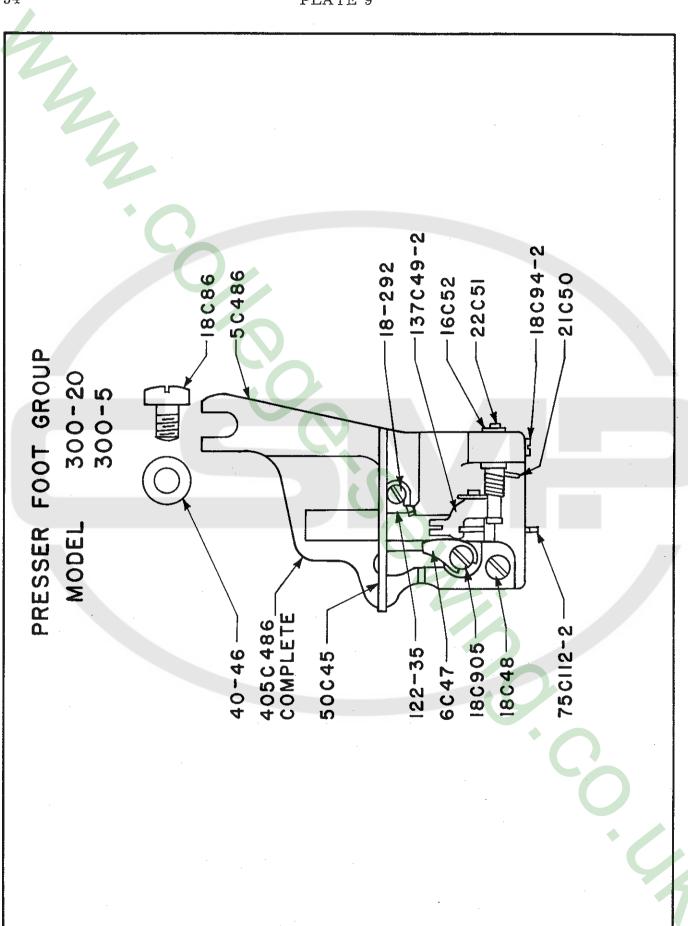
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SKIP STITCH MECHANISM	MODEL 300-20								S						
SKIP STI	MO	Clamp Screw for crank 48 C 164.	Screw for indicator plate.	Bearing Screw for yoke 49 C 30.	Bearing Screw for link 46 C 266-1.	Spring for pin 22 C 292.	Pin for locating regulator 149 C 29.	Thrust Collar for regulator 149 C 29.	Link for driving rib shaft.	Crank for rib shaft.	Yoke for skip stitch.	Indicator Plate.	Regulator for quick change.	Rib Shaft with rib.	Set Screw for collar 39 C 122.
	PLATE 8	18 C 65-1	18-134	18-743	18 C 1008	21-330	22 C 292	39 C 122	46 C 266-1	48 C 164	49 C 30	110 C 308	149 C 29	444 C 61-7	1022

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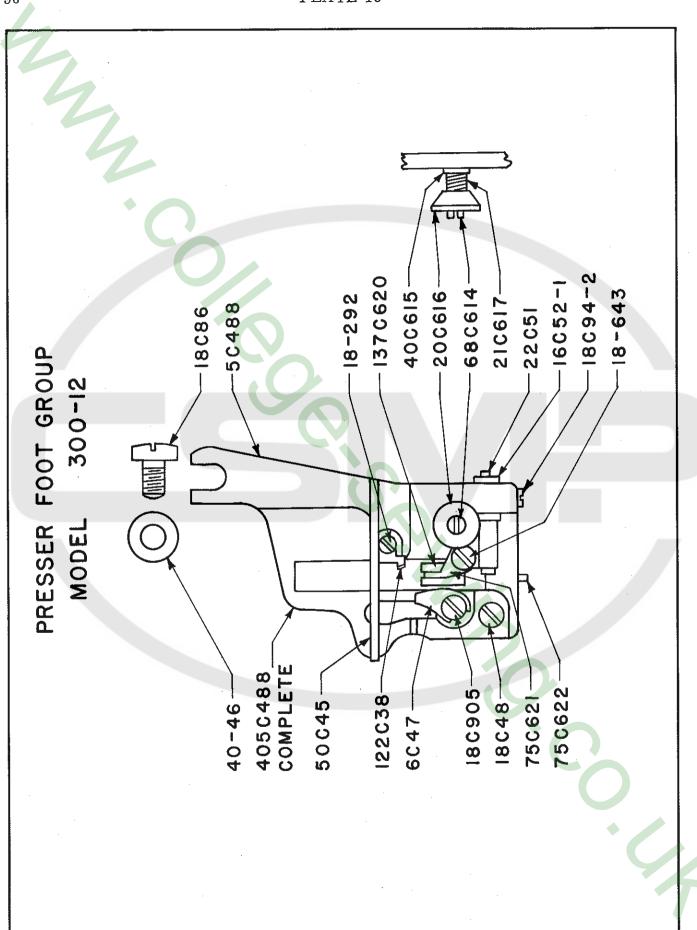
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GROUP		300-20																
PRESSER FOOT GROUP	MODELS	300-5			h retainer.		foot to head.	ic bushing 16 C 52.	S				ew 18 C 86.					embly.
			Presser Foot Only.	Needle Guide,	Bushing (Eccentric) for cloth retainer	Screw for edge guide.	Screw for attaching presser foot to head.	Screw for clamping eccentric bushing 16 C 52.	Screw for chaining finger.	Screw for needle guide.	Spring for cloth retainer.	Hinge Pin for cloth retainer.	Washer for presser foot screw 18 C 86.	Presser Foot Bridge.	Edge Guide.	Chaining Finger.	Cloth Retainer.	Presser Foot Complete Assembly.
		PLATE 9	5 C 486	6 C 47	16 C 52	18 C 48	18 C 86	18 C 94-2	18-292	18 C 905	21 C 50	22 C 51	40-46	50 C 45	75 C 112-2	122-35	137-C49-2	405 C 486

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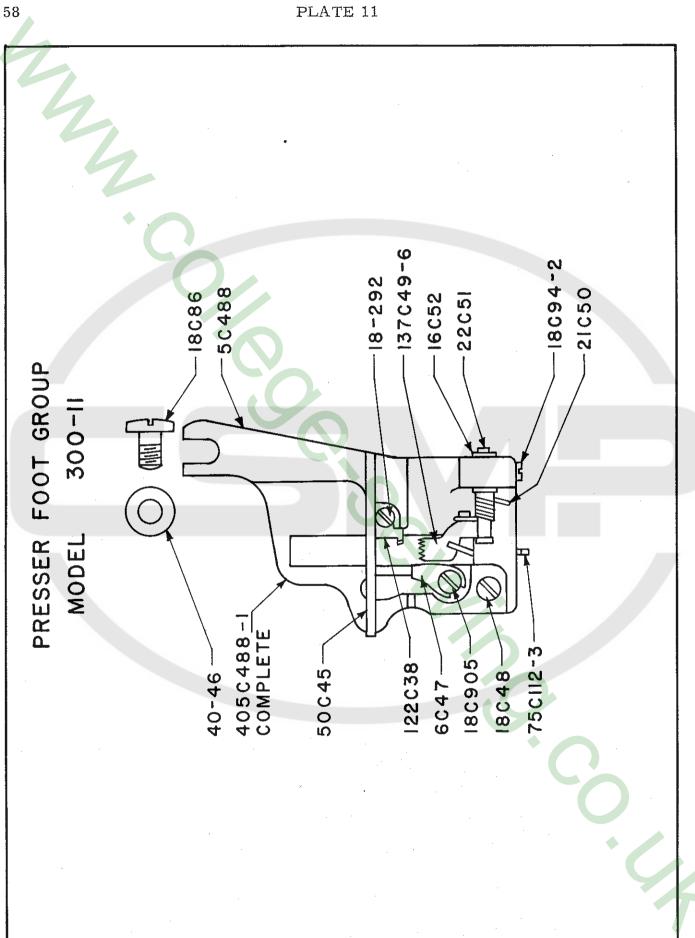
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*		Spring for cloth retainer.	Hinge Pin for cloth retainer.	Washer for presser foot screw, 18 C 86.	Washer for cloth retainer staff.	Presser Foot Bridge.	Staff for cloth retainer.	Edge Guide on cloth retainer.	Edge Guide on presser foot,	O'Poining Dingon	Cloth Dotoings	Presser Foot Complete Assembly.
MODEL	300-12	21 C 617	22 C 51	40-46	40 C 615	50 C 45	68 C 614	75 C 621	75 C 622	199 (7.38	197 690	405 C 488
		Presser Foot Only.	Needle Guide.	Bushing (Eccentric) for cloth retainer.	Screw for edge guide, 75 C 622.	Screw for attaching presser foot to head.	Screw for clamping eccentric bushing	10 0 04.	Screw for chaining finger.	Screw for edge guide, 75 C 621.	Screw for needle guide.	Nut for cloth retainer staff.
	PLATE 10	5 C 488	6 C 47	16 C 52-1	18 C 48	18 C 86	18 C 94-2		18-292	18 C 643	18 C 905	20 C 616



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405 C 488-1 Presser Foot Complete Assembly.

Cloth Retainer.

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PRESSER FOOT GROUP	MODEL 300-11	Presser Foot Only.	Needle Guide.	Bushing (Eccentric) for cloth retainer.	Screw for edge guide.	Screw for attaching presser foot to head.	-2 Screw for clamping eccentric bushing 16 C 52.	Screw for chaining finger.	Screw for needle guide.	Spring for cloth retainer.	Hinge Pin for cloth retainer,	Washer for presser foot screw 18 C 86.	Presser Foot Bridge,	3 Edge Guide.
	PLATE 11	5 C 488	6 C 47	16 C 52	18 C 48	18 C 86	18 C 94-2	18-292	18 C 905	21 C 50	22 C 51	40-46	50 C 45	75 C 112-3

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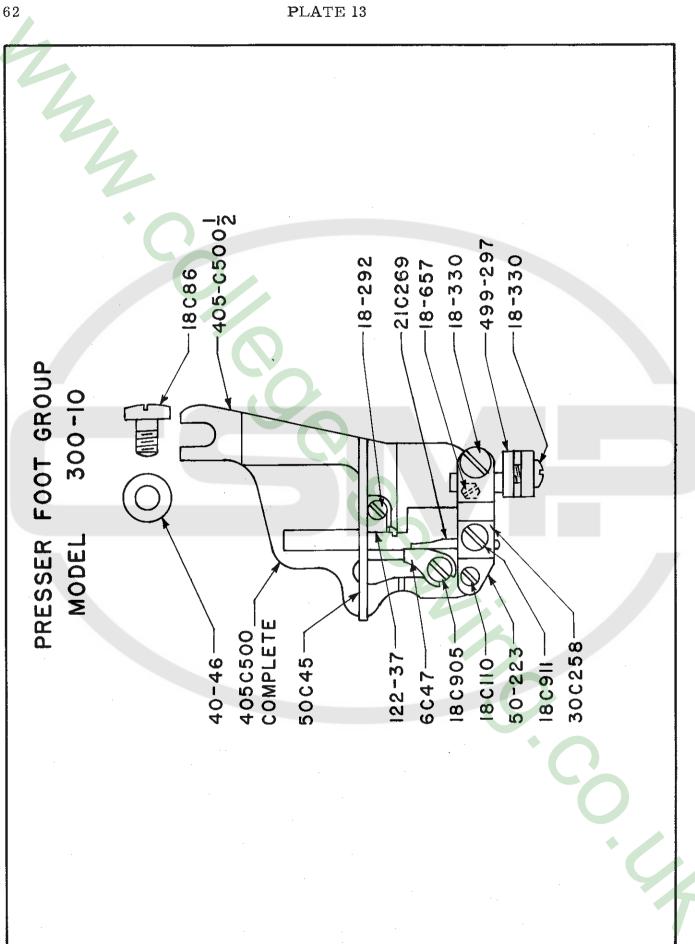
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		PRESSER FOOT GROUP					•	ad.	Screw for clamping eccentric bushing 16 C 52				86.						
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					Presser Foot Only.	de.	Bushing (Eccentric) for cloth retainer.	Screw for attaching presser foot to head.	clam	Screw for chaining finger.	Screw for needle guide. Screw for presser foot. Spring for cloth retainer.	Hinge Pin for cloth retainer.	Washer for presser foot screw,	Washer for 110 C 305.	Presser Foot Bridge.	Plate for roll padding.	Chaining Finger.	iner.	Presser Foot Complete Assembly.
					er F	Needle Guide.	ıg (E	for	for	for	for   for   for	Pin :	r for	r foi	er F	for r	ng F	Cloth Retainer.	er F
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				PLATE	5 C 540	) 9	16 C	18 C	18 C	18-292	OOO	22 C	40-46	40 C 6	50 C	110 C 305	122-35	137 C	405 C 540
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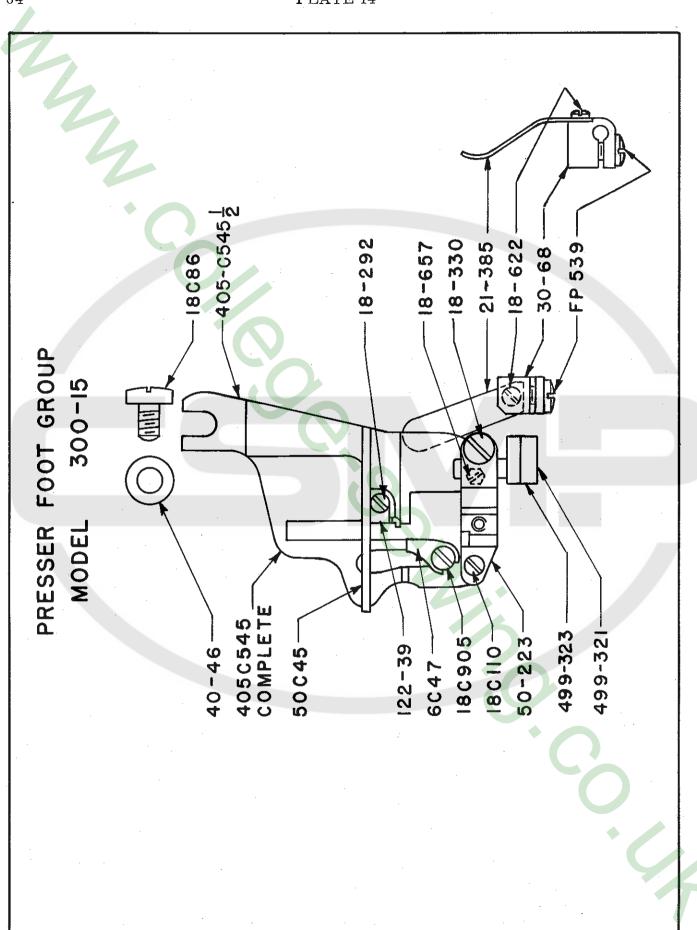
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PRESSER FOOT GROUP	MODEL	300-10		r foot to head.	bracket to presser foot, left side.		· clamping 499-297.	bracket to presser foot, right side.		liner clamp.		ainer.	rew, 18 C 86.				ssembly.	nly.	
			Needle Guide.	Screw for attaching presser foot to	Screw for attaching folder bracket	Screw for chaining finger.	Screw in folder bracket for clamping 499-297, Screw for clamping folder.	Screw for attaching folder bracket	Screw for needle guide.	Screw for spring cloth retainer clamp.	Hemmer Spring.	Clamp for spring cloth retainer.	Washer for presser foot screw,	Presser Foot Bridge.	Folder Bracket.	Chaining Finger.	Presser Foot, Complete Assembly	405 C 500-1/2 Presser Foot with bridge only.	Folder Holder.
		PLATE 13	6 C 47	18 C 86	18 C 110	18-292	18-330	18-657	18 C 905	18 C 911	21 C 269	30 C 258	40-46	50 C 45	50-223	122-37	413-590	405 C 500-1/2	499-297



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Screw for clamping folder.

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		PRESSER FOOT GROUP	EL	15			Screw for attaching folder bracket to presser foot, left side.		499-323.		Screw for attaching folder bracket to presser foot, right side.					Presser Foot Bridge. (Component of 405 C 545-1/2.)						
		FC	MODEL	300-15			r fo				r fo					545					rs.	
		SER				j.	esse	•	Screw in folder bracket for clamping 499-321, Screw for clamping folder.		esse	V				05 C					Folder Holder for 3/16", 1/4", 5/16" folders.	~ 6
о П		PRES				Screw for attaching presser foot to head.	to pr	•	ıg 49		to pr				18 C 86.	of 4					16" f	
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					Needle Guide.	; att	r atte	Screw for chaining finger.	folde cla	Screw for spring 21-385.	r att	Screw for needle guide.	Spring for folder.	Spring Clamp for folder.	Washer for presser foot screw,	Foot	Folder Bracket.	Chaining Finger.	Presser Foot Complete Assembly	Foot	lolde	Folder Holder for 3/8" folder (only)
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				E 14	4.7	98	110	2	0	22	2.2	902	35	~~		45	33	6	545	545-	21	23
				PLATE	6 C	18 C	18 C 110	18-292	18 330	18-622	18-657	18 C 905	21-385	30-68	40-46	50 C 45	50-223	122-39	405 C 545	405 C 545-1/2 Presser Foot with bridge only.	499-321	499-323
				집	1.						-	-		V-3	<b>. 4</b> '			17	4(	4	4	4

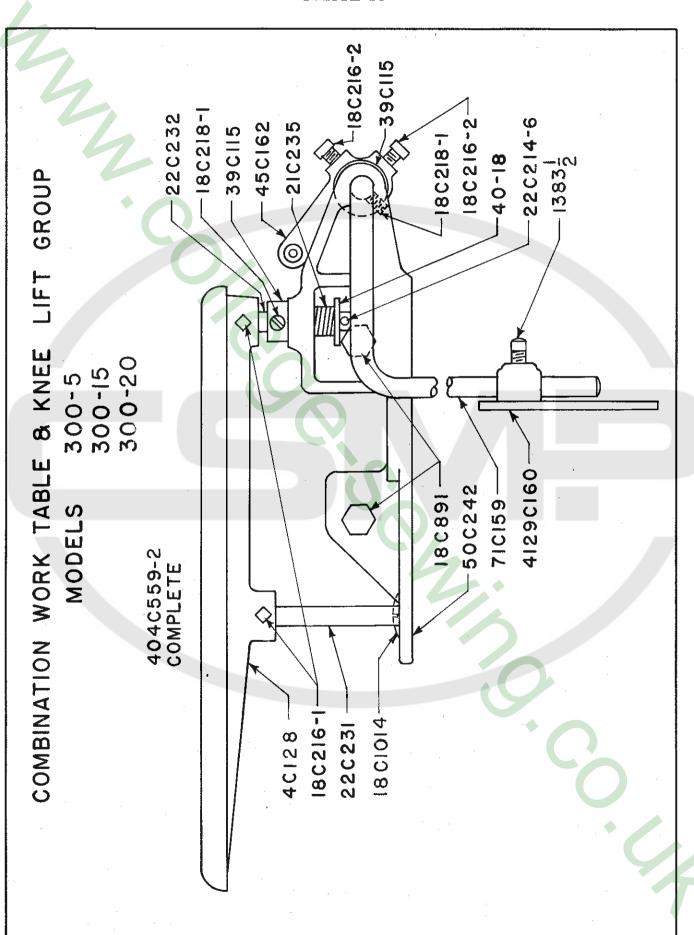
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*	300-20	Work Table Rest Pin.	Work Table Hinge Pin.	Collar for knee lift rod.	Collar for work table hinge pin.	Washer for work table hinge pin.	Knee Lift Rod Lever.	Work Table Bracket,	Knee Lift Rod.	Work Table and Knee Lift Complete.	Knee Press Pad.	Set Screw for knee press pad.
MODELS	300-15	√ 22 C 231	¥ 22 C 232·	× // 39 C 115		★ 40-18 ·	√ 45 C 162 ·	¥ 50 C 242 ·	+ 71 C 159.	404 C 559-2	V4129 C 160	1383-1/2
	300-5	Work Table.	Set Screw for work table rest pin.	set screw for work table hinge pin.	Set Screw for knee lift rod lever.	Set Screw for knee lift rod col	Set Screw for work table ninge pin collar.	Screws for attaching work table bracket	to machine.	Stop Screw for rest pin.	Spring for work table hinge pin.	¥ 22 C 214-6 · Pin for washer for work table hinge pin.
	PLATE 15	f 4 C 128.	18 C 216-1		2)~18 C 216-2°	* 18 C 218-1.		18 C 891		¥ 18 C 1014 ·	¥21 C 235	22 C 214-6.
	-1	+	2) V 18 C	\ ! I	2 K	1				*	*	*

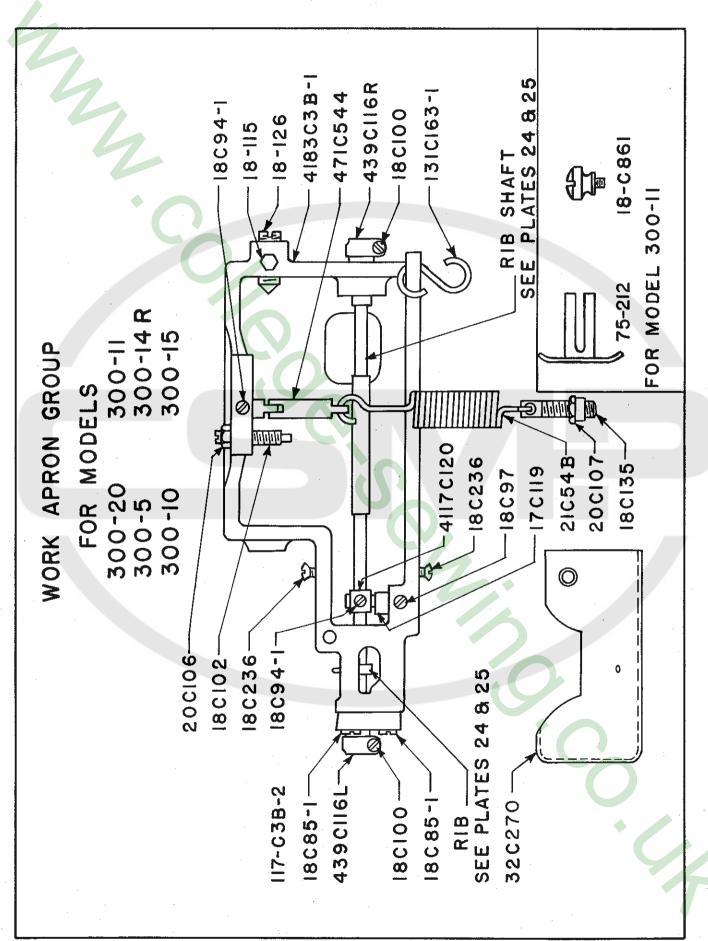
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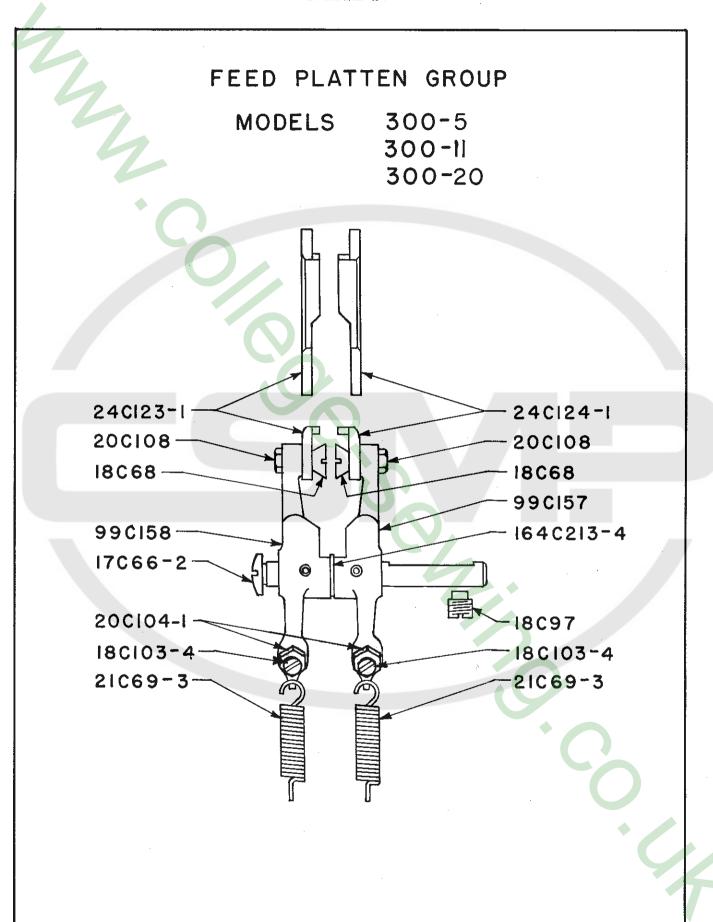
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•	300-15 300-20	Nut for adjustable stop screw for work apron.	Nut for work apron spring adjusting screw.	Work Apron Spring.	Edge Guide for trouser bottoms.	Model 300-11.	End Bearing.	"S" Hook for knee lift.	Collar (right hand) for rib shaft.	Collar (left hand) for rib shaft.	Work Apron Spring Hinge Joint.	Rib Shaft Support.	Work Apron with bearings and bushings.	
MODELS	300-11 300-14 R	20 C 106	20 C 107	21 C 54B	75-212		117 C 3B-2	131 C 163-1	439 C 116R	439 C 116L	471 C 544	4117 C 120	4183 C 3B-1	
	300-5 300-10	Stud for rib shaft support.	Screws for work apron bearings.	Screw for rib shaft support. Screw for work apron spring hinge joint.	Screw for stud for rib shaft support.	Screw for clamping collar (left hand)	Screw for clamping collar (right hand) for rib shaft.		Screw (Adjustable stop) for work apron.	Set Screw for work apron pivot screw, 18-126.	Screw Pivot for work apron.	Screw for adjusting work apron spring.	Screws for work apron cover.	Screw for 75-212
-	PLATE 16	17 C 119	18 C 85-1	18 C 94-1	18 C 97	18 C 100			18 C 102	18-115	18-126	18 C 135	18 C 236	18 C 861



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## MODELS

PLATE 17	300-5	300-11	300-20
17 C 66-2	Stud for feed p	olatten carrier	
18 C 68	Screw for bear	ring for feed p	lattens.
18 C 97	Set Screw for	feed platten ca	rrier stud.
18 C 103-4	Screws for ad	justing tension	of spring #21 C 69-3.
20 C 104-1	Nut for locking	g feed platten o	carrier adjusting screws.
20 C 108	Nut for feed pl	latten bearing	screws.
21 C 69-3	Spring for feed	d platten carri	ers.
24 C 123-1	Feed Platten,	left hand.	
24 C 124-1	Feed Platten,	right hand.	
99 C 157	Feed Platten C	Carrier, right	hand.
99 C 158	Feed Platten (	Carrier, left h	and.
164 C 213-4	Feed Platten (	Carrier Spacing	g Shims.

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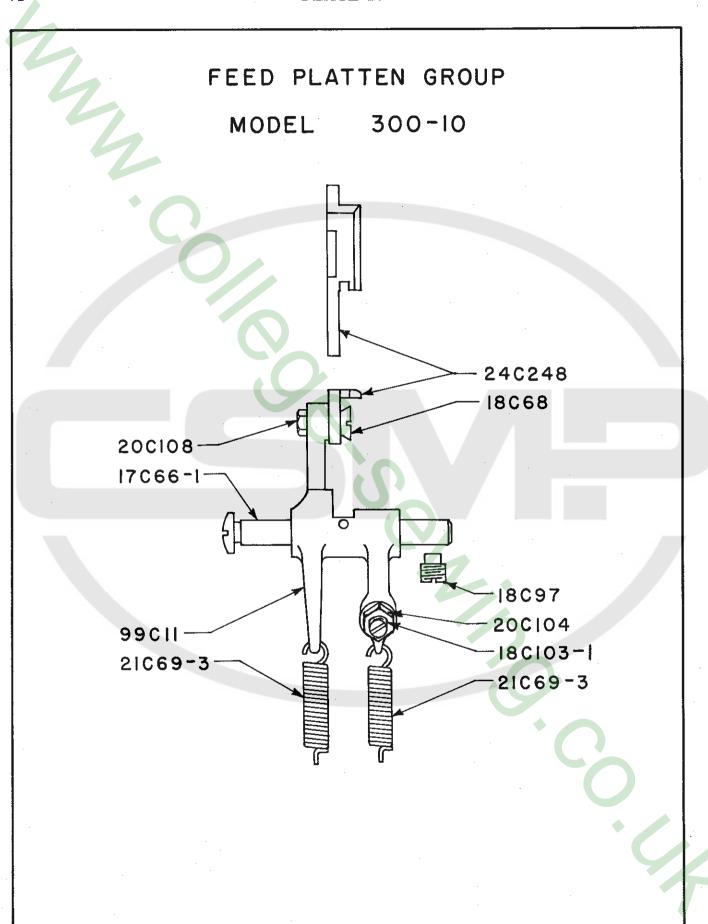
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## MODEL

	PLATE 18	300-10
	17 C 66-1	Stud for feed platten carrier.
	18 C 68	Screw Bearing for feed platten.
,	18 C 97	Set Screw for feed platten carrier stud.
	18 C 103-1	Screw for adjusting tension of spring, #21 C 69-3.
	20 C 104	Nut for locking feed platten carrier adjusting screw.
	20 C 108	Nut for feed platten bearing screw.
	21 C 69-3	Spring for feed platten carrier.
	24 C 248	Feed Platten.
	99 C 11	Feed Platten Carrier.

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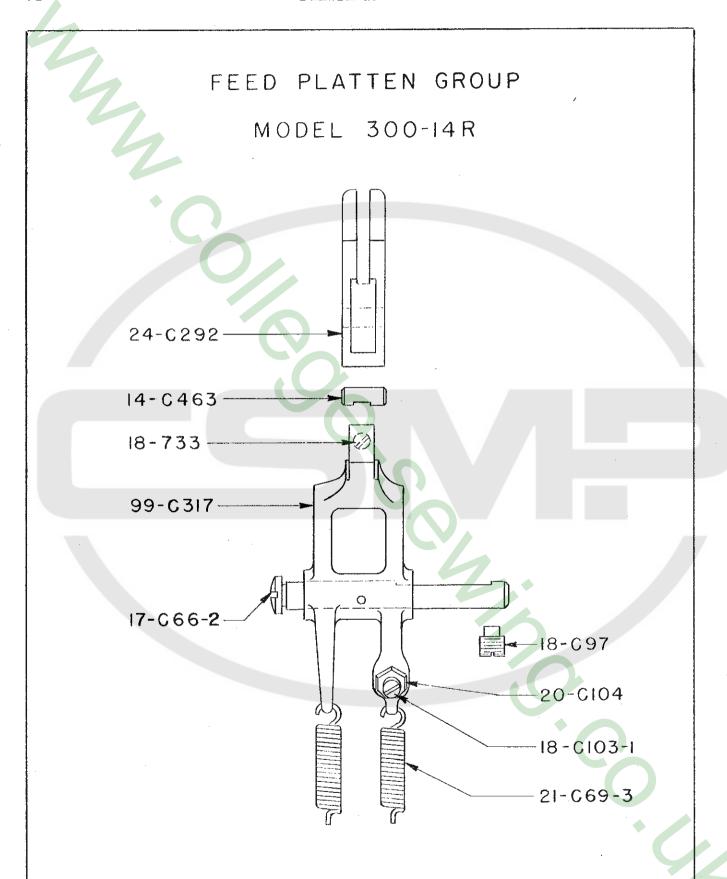
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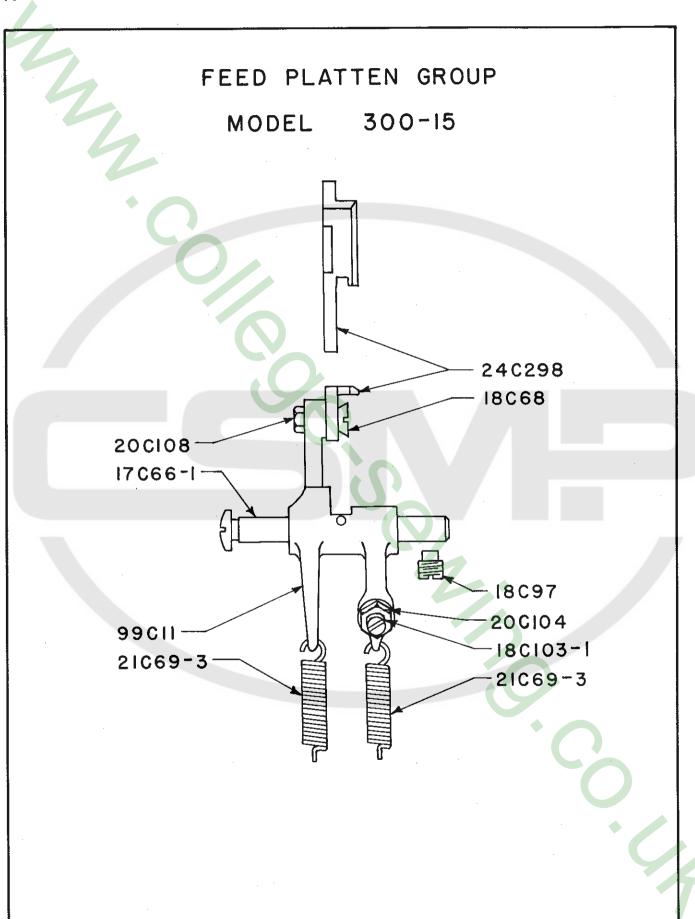
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## MODEL

PLATE 19	300-14 R
14 C 463	Shaft for feed plate.
17 C 66-2	Stud for feed platten carrier.
18 C 97	Set Screw for feed platten carrier stud.
18 C 103-1	Screw for adjusting tension of spring 21 C 69-3.
18-733	Set Screw for 14 C 463.
20 C 104	Nut for locking 18 C 103-1.
21 C 69-3	Spring for feed platten carrier.
24 C 292	Feed Platten.
99 C 317	Feed Platten Carrier.



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## MODEL

PLATE 20	300-15
17 C 66-1	Stud for feed platten carrier.
18 C 68	Screw Bearing for feed platten.
18 C 97	Set Screw for feed platten stud.
18 C 103-1	Screw for adjusting tension of spring, #21 C 69-3.
20 C 104	Nut for locking feed platten carrier adjusting screw.
20 C 108	Nut for feed platten bearing screw.
21 C 69-3	Spring for feed platten carrier.
24 C 298	Feed Platten.
99 C 11	Feed Platten Carrier.

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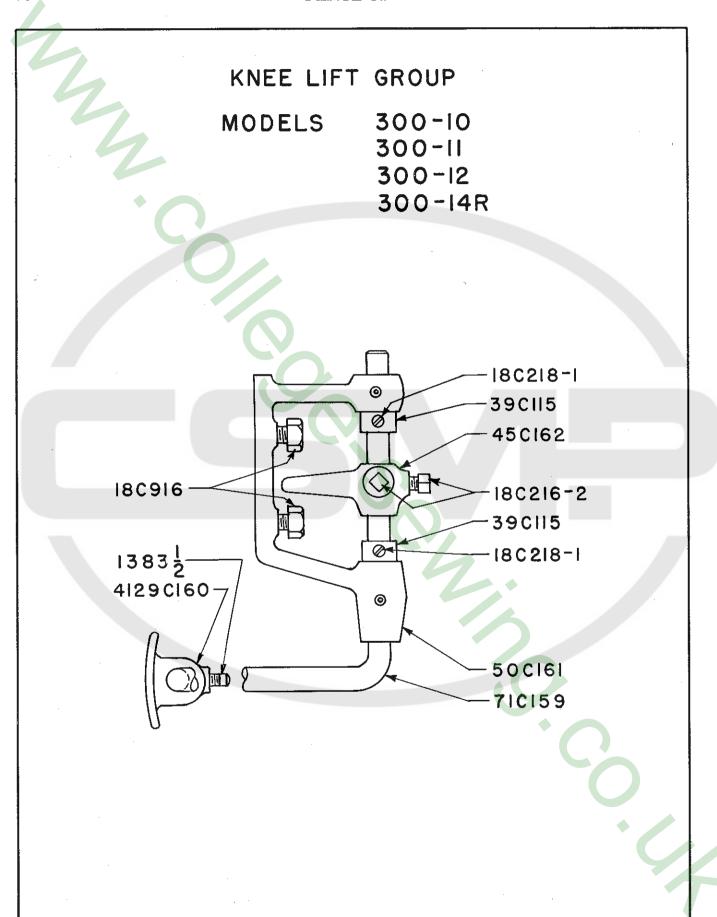
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## KNEE LIFT GROUP

## MODELS

PLATE 21	300-10	300-12
	300-11	300-14 R
18 C 216-2	Set Screw for knee li	ft rod lever.
18 C 218-1	Set Screws for knee	lift rod collars.
18 C 916	Screws for knee lift	bracket.
39 C 115	Collars for knee lift	rod.
45 C 162	Knee Lift Rod Lever	
50 C 161	Knee Lift Bracket.	
71 C 159	Knee Lift Rod.	
4129 C 160	Knee Press Pad.	
1383-1/2	Screw for knee press	s pad.

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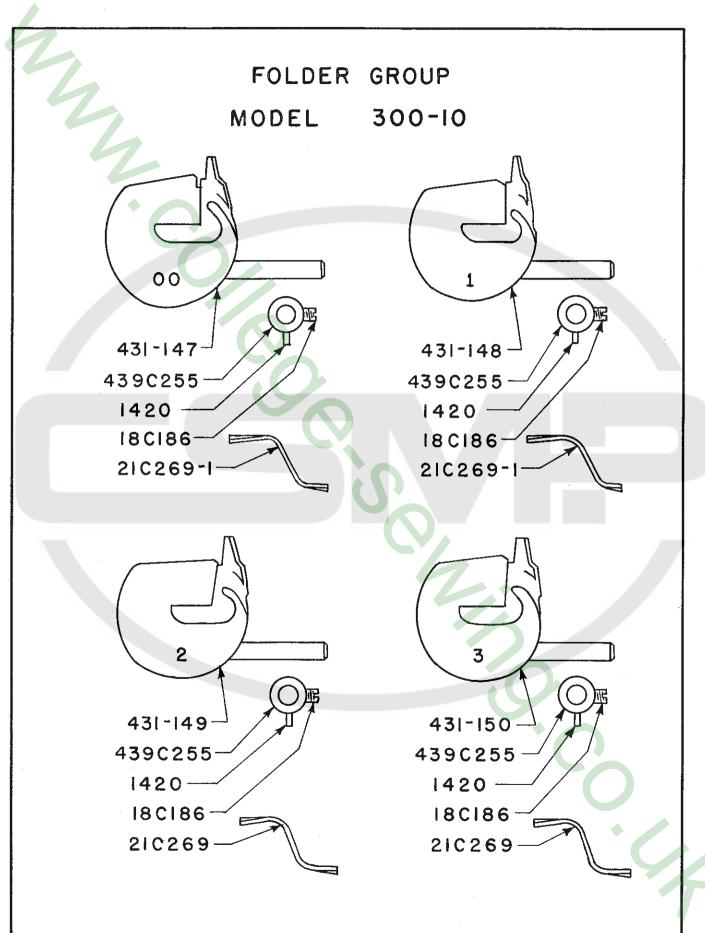
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## FOLDER GROUP

## MODEL

PLATE 22	300-10

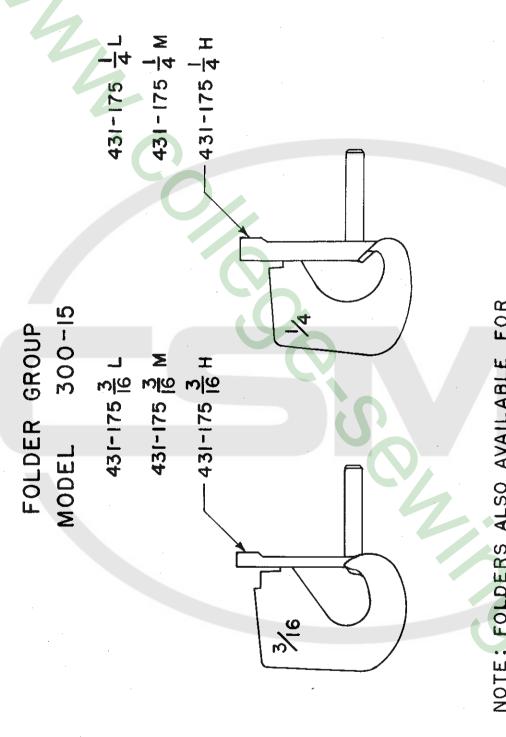
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## ROLLED EDGE FOLDERS

18 C 186	Set Screws for folder collar.
21 C 269	Spring for No. 2, No. 3 and No. 4 folder.
21 C 269-1	Spring for No. 00 and No. 1 folder.
1420	Folder Collar Locating Pin.
431-147	Folder No. 00 for extra light material.
431-148	Folder No. 1 for light material.
431-149	Folder No. 2 for medium material.
431-150	Folder No. 3 for medium heavy material.
431-159	Folder No. 4 for extra heavy material. (Not illustrated)
439 C 255	Collar for folders, complete with pin 1420.



FOR NOTE: FOLDERS ALSO AVAILABLE 5" AND 3" SEAMS. Parameter 1 (Daywood)

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MODEL

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PLATE 23

## BOOK SEAM FOLDERS

				4							
Folder for light material, 3/16 inch inturn.	Folder for medium material, 3/16 inch inturn.	Folder for heavy material, 3/16 inch inturn.	Folder for light material, 1/4 inch inturn.	Folder for medium material, 1/4 inch inturn.	Folder for heavy material, 1/4 inch inturn.	Folder for light material, 5/16 inch inturn.	Folder for medium material, 5/16 inch inturn.	Folder for heavy material, 5/16 inch inturn.	Folder for light material, 3/8 inch inturn.	Folder for medium material, 3/8 inch inturn.	Folder for heavy material. 3/8 inch inturn.
431-175-3/16 L	431-175-3/16 M	431-175-3/16 H	431-175-1/4 L	431-175-1/4 M	431-175-1/4 H	431-175-5/16 L	431-175-5/16 M	431-175-5/16 H	431-175-3/8 L	431-175-3/8 M	431-175-3/8 H

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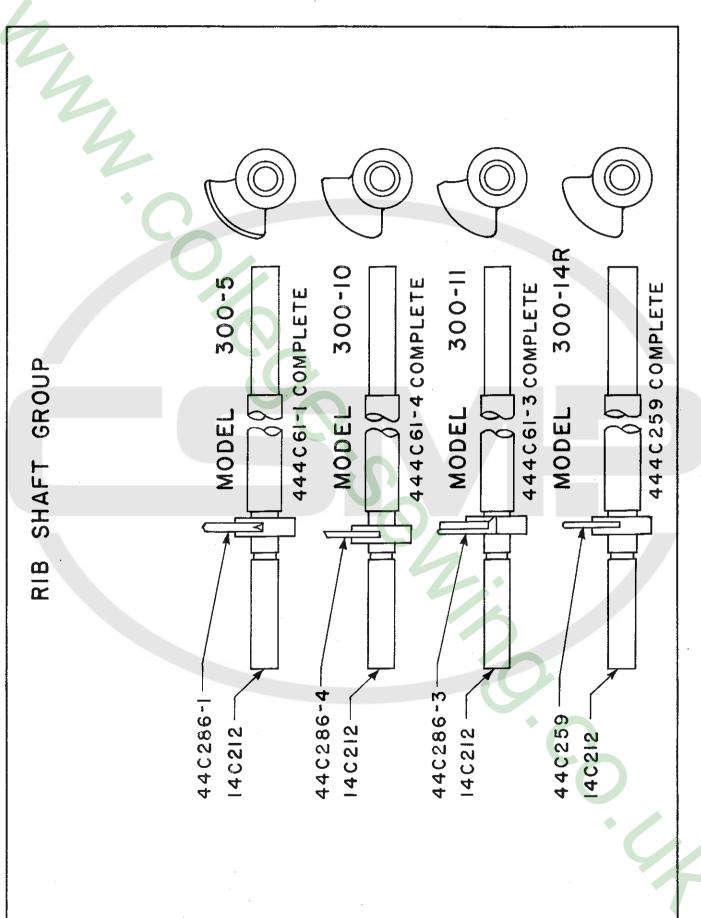
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SHAFT GROUP MODELS	300						S										
RIB S	300-5	MODEL 300-5	Rib Shaft.	Rib.	Rib Shaft with rib.	MODEL 300-10	Rib Shaft.	Rib.	Rib Shaft with rib.	MODEL 300-11	Rib Shaft.	Rib.	Rib Shaft with rib	MODEL 300-14 R	Rib Shaft.	Rib.	Rib Shaft with rib.
	PLATE 24		14 C 212	. 44 C 286-1	444 C 61-1		14 C 212	44 C 286-4	444 C 61-4		14 C 212	44 C 286-3	444 C 61-3		14 C 212	44 C 259	444 C 259

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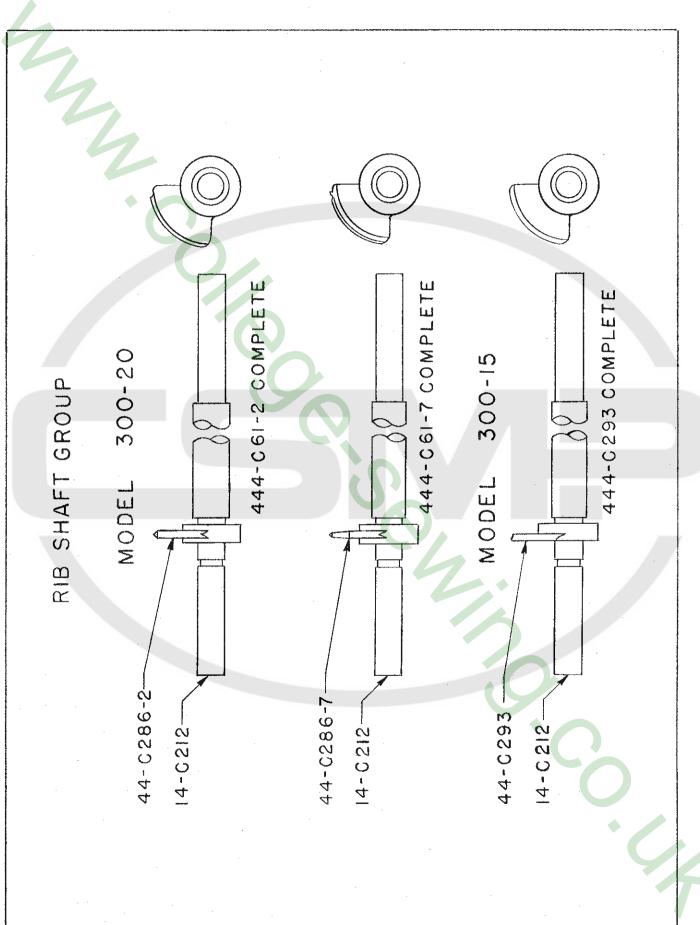
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				•	MODEL 300-15			Rib Shaft with rib.	MODEL 300-20			Rib Shaft with rib.			Rib Shaft with rib	
					H	haft.		haft	F-1	haft.		haft	haft.		haft	
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formark				PLATE 25		14 C 212	44 C 293	444 C 293		14 C 212	C 28	444 C 61-2	14 C 212	44 C 286-7	444 C 61-7	
				PL.		14	44	444		14	44	444	14	44	444	

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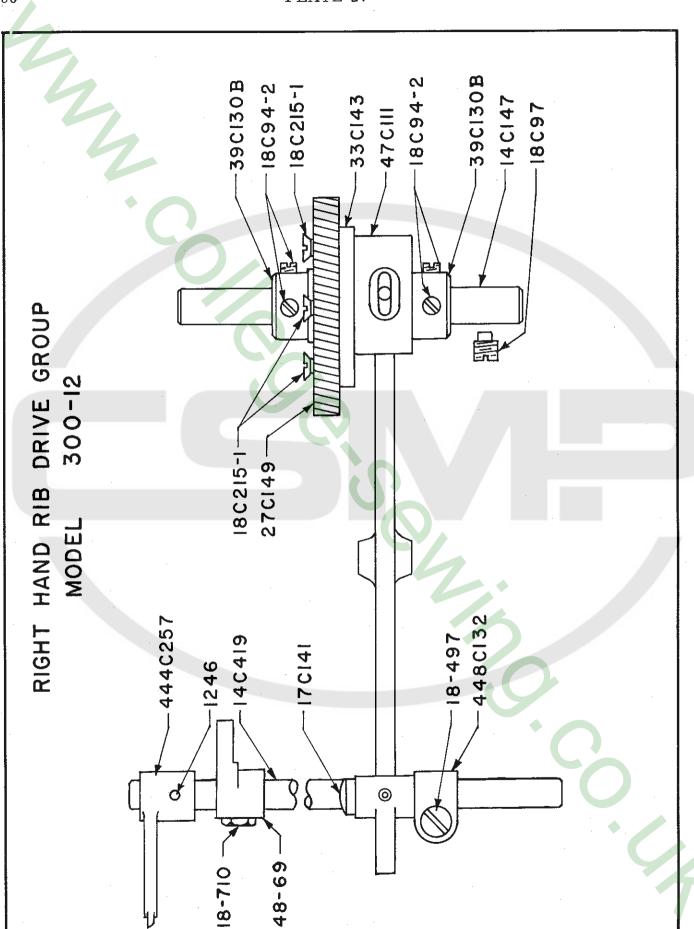
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				300-14 R 300-20										
		FEED POINTS	MODELS	300-11 300-12	2 and 300-14 R									
		FI		300-5 300-10	MODELS 300-5, 300-11, 300-12		-10	ine rolled edge.		-15	4	-20	2	
					MODELS 30	Feed Point, coarse.	MODEL 300-10	Feed Point used for fine rolled edge.	Feed Point - regular.	MODEL 300-15	Feed Point.	MODEL 300-20	Feed Point, fine.	
				PLATE 26		23 C 43-1		23 C 281	23 C 293		23 C 314		23 C 43-2	



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D DRIVE RIB GROUP	MODEL	300-12					for driven gear.		132 for right hand rib shaft.	for driving left hand rib.					and rib.		shaft and pin 1246.	
RIGHT HAND DRIVE			Shaft for driven gear.	Shaft for right hand rib.	Stud for connecting rod, 47 C 111.	Set Screw for driven gear shaft.	Set Screw for collar, 30 C 130B, for dri	Screws for eccentric to driven gear.	Screw for clamping crank, 448 C 132 for	Screw for clamping crank, 48-69 for dri	Gear (driven) for ribs.	Eccentric for oscillating ribs.	Collar for driven gear, 27 C 149.	Connecting Rod for oscillating ribs.	Crank on right hand rib for driving left hand rib.	Pin for right hand rib.	Right Hand Rib Complete with rib shaft a	Crank for right hand rib shaft.
		PLATE 27	14 C 147	14 C 419	17 C 141	18 C 97	18 C 94-2	18 C 215-1	18 497	18-710	27 C 149	33 C 143	39 C 130B	47 C 111	48-69	1246	444 C 257	448 C 132

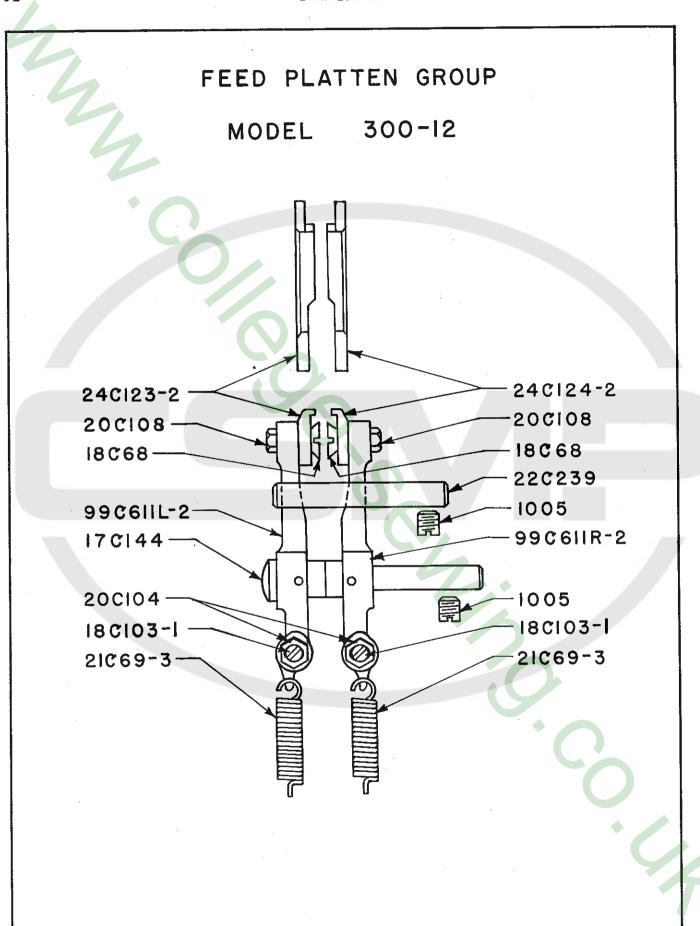
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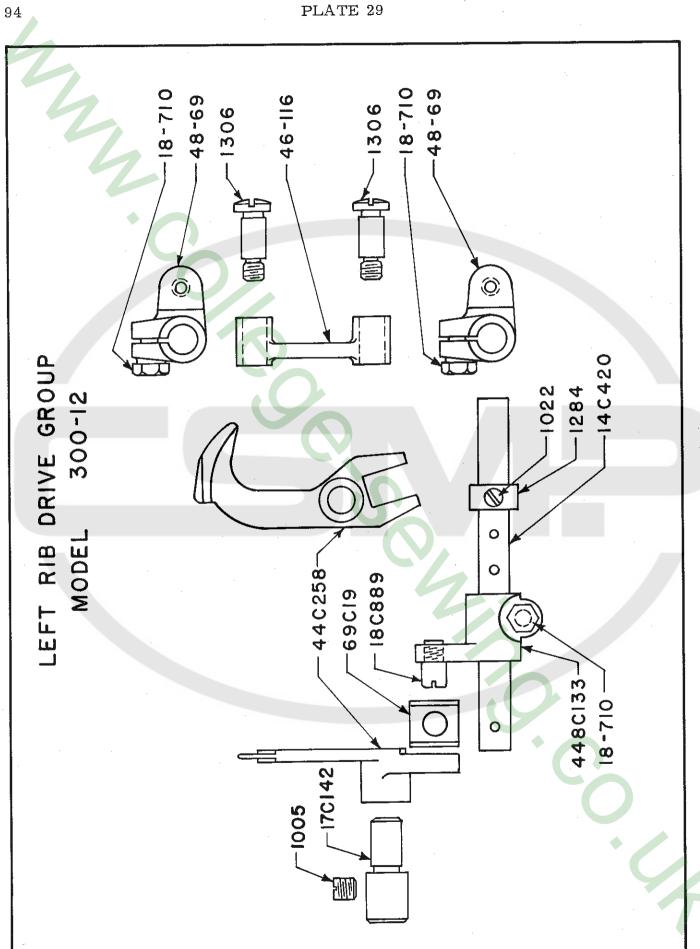
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## MODEL

PLATE 28	300-12
17 C 144	Stud for feed platten carriers.
18 C 68	Screw Bearing for feed plattens.
18 C 103-1	Screws for adjusting tension of springs, #21 C 69-3.
20 C 104	Nut for locking carrier adjusting screws, #18 C 103-1.
20 C 108	Nut for Screw bearings for feed plattens.
21 C 69-3	Springs for feed platten carriers.
22 C 239	Pin Stop in work apron for feed platten carriers.
24 C 123-2	Feed Platten, left hand.
24 C 124-2	Feed Platten, right hand.
1005	Set Screw for pin stop for carriers. Set Screw for feed platten carrier stud.
99 C 611L-2	Feed Platten Carrier, left hand.
99 C 611R-2	Feed Platten Carrier, right hand.



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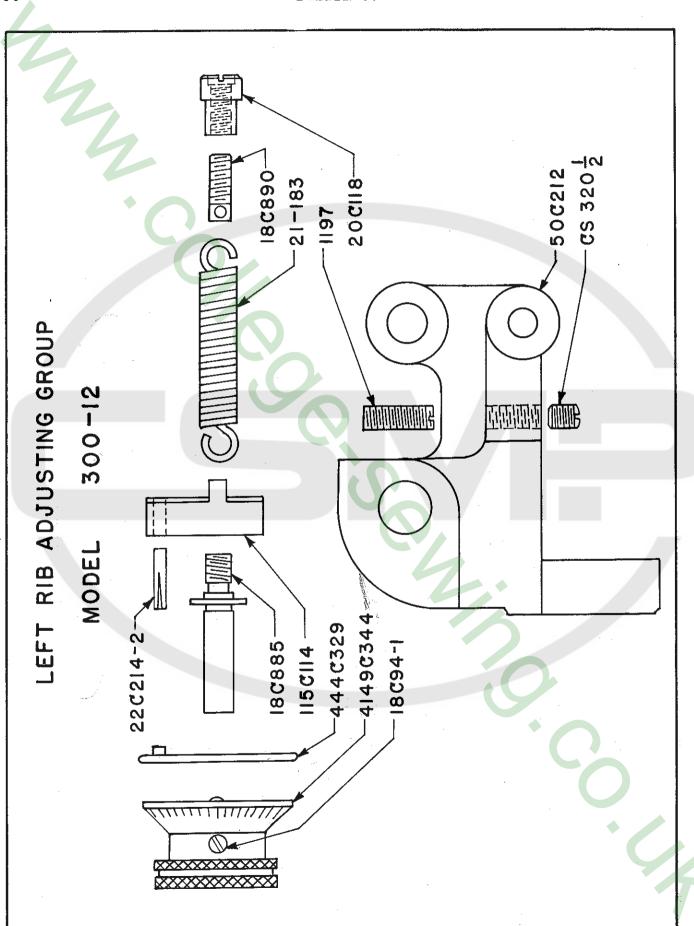
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			Jack Shaft for oscillating left hand rib.	Stud for left hand rib.	Screw for clamping crank, Screw for clamping crank,	Screw for slide block for left hand rib.	Left Hand.	Link for oscillating left hand rib.	Crank on Jack shaft for left hand rib. Crank on right hand rib shaft, see Pl	Slide Block for left hand rib.	Set Screw for left hand rib stud.	Set Screw for collar, 1284 on Jack shaft.	Collar on left hand rib Jack shaft.	Screws, Bearing, for link 46-116 to oscillate left hand rib.	Crank with screw for oscillating left hand rib
			Jack Shaft for	Stud for left ha	Screw for clar Screw for clar	Screw for slid	Rib Left Hand.	Link for oscill	Crank on Jack Crank on right	Slide Block for	Set Screw for	Set Screw for	Collar on left	Screws, Beari	Crank with ser
		PLATE 29	14 C 420	17 C 142	18-710	18 C 889	44 C 258	46-116	48-69	69 C 19	1005	1022	1284	1306	448-133

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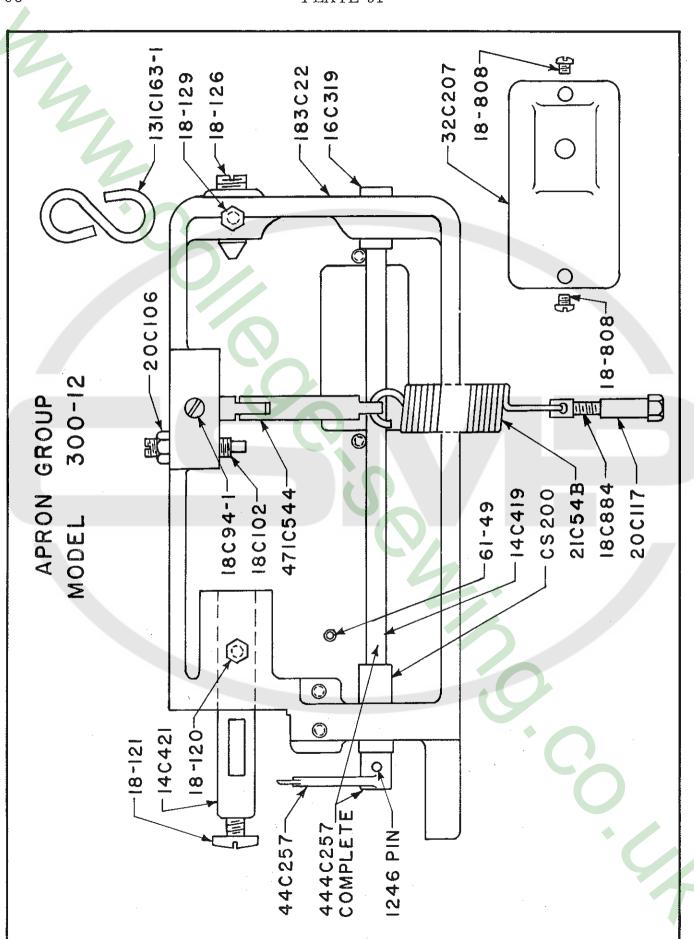
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		UST	MODEL	300-12			hand	d rik			1				bra	
		ADJ	MO]	300			left ]	t han		lock					d rib	
		LEFT RIB ADJUSTING GROUP					Screw for adjusting tension of spring for left hand rib bracket.	Nut for adjusting screw, 18 C 890 for left hand rib bracket.		Pin for guiding left hand rib adjustment block.		6	bin.		Screw for locking stop screw for left hand rib bracket.	
0.		FT			don's		pring	oj 06		ustm		•	with	op.	r lef	cket.
0		H			dial 1	d rik	of s	C 8	cket.	o adji		3lock	isc .	g Kn	w fo	bra
					Set Screw for left hand rib dial knob.	Screw for adjusting left hand rib.	sion	۷, 18	Spring for left hand rib bracket.	id rik		Left Hand Rib Adjustment Block.	Left Hand Rib Adjustment Disc with pin.	Left Hand Rib Dial Adjusting Knob.	scre	Stop Screw for left hand rib bracket.
					hand	g lef	g ten	crev	d rib	t han	Left Hand Rib Bracket.	ıstm	ıstm	. Adj	stop	han
Vinces )					left	ıstin	ıstin	ing s	han	g lef	$\mathbf{Bra}$	Adjı	Adjı	Dial	king	r left
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				30	94-1	885	890	C 118	ന	214-	212	114	329	344	1/2	
				PLATE 30	18 C	18 C 885	18 C 8	20 C	21-183	22 C 214-2	50 C 212	115 C 114	444 C 329	4149 C 344	CS 320-1/2	7
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WORK APRON GROUP  MODEL  300-12  1 for right hand rib.  2 for 117  1 in apron for left hand rib.  2 for 117  2 for 117  3 for 2 for 117  3 for 2 for work apron spring  4 for 2 for 118  8 for work apron.  1 1246  1 w Fivot for work apron.  4 for 2 for 118  8 for work apron.  4 for 2 for 118  8 for work apron.  4 for 2 for 118  8 for work apron.  4 for 2 for 118  8 for work apron.  4 for 2 for 118  8 for work apron.  4 for 2 for 118  8 for work apron.  8 for work apron.  9 for work apron.  1 for work apron.	## WORK APRON GROUP  ## WORK APPRON GROUP  ## WORK
WORK WORK  **Ew*.**	Shaft for right hand rib.  Shaft in apron for left hand rib bracket.  Bushing for rib shaft, right hand end.  Set Screw for work apron spring hinge joint.  Screw (adjustable stop) for work apron.  Set Screw for left hand rib bracket shaft.  Screw in end of left hand rib bracket shaft.  Screw Pivot for work apron.  Set Screw for work apron.  Set Screw for work apron.  Set Screw for work apron pivot screw.  Set Screw for work apron pivot screw.
for right hand rib.  in apron for left hand rib tcket.  lin apron for left hand rib for work apron sprin ge joint.  w (adjustable stop) for wor on.  w in end of left hand rib bractfu.  w in end of left hand rib cket shaft.  w Pivot for work apron pivot crew for work apron pivot work apron pivot we for work apron pivot we for work apron cover,	Shaft for right hand rib. Shaft in apron for left hand rib bracket. Bushing for rib shaft, right haend. Set Screw for work apron sprin hinge joint. Screw (adjustable stop) for won apron. Set Screw for left hand rib bra shaft. Screw in end of left hand rib bracket shaft. Screw Pivot for work apron. Set Screw for work apron pivot Screws for work apron cover,
for right had in a pron for taket.  In a pron for taket.  In a pron for wonge joint.  W (adjustable on.)  W m end of lett.  W in end of lettet shaft.  W pivot for wongers was for work was	

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WORK SUPPORT GROUP	MODEL 300-12					
WORK		Work Support Plate. Screws for attaching work support plate.		7		
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	PLATE 32	4 C 114-1				

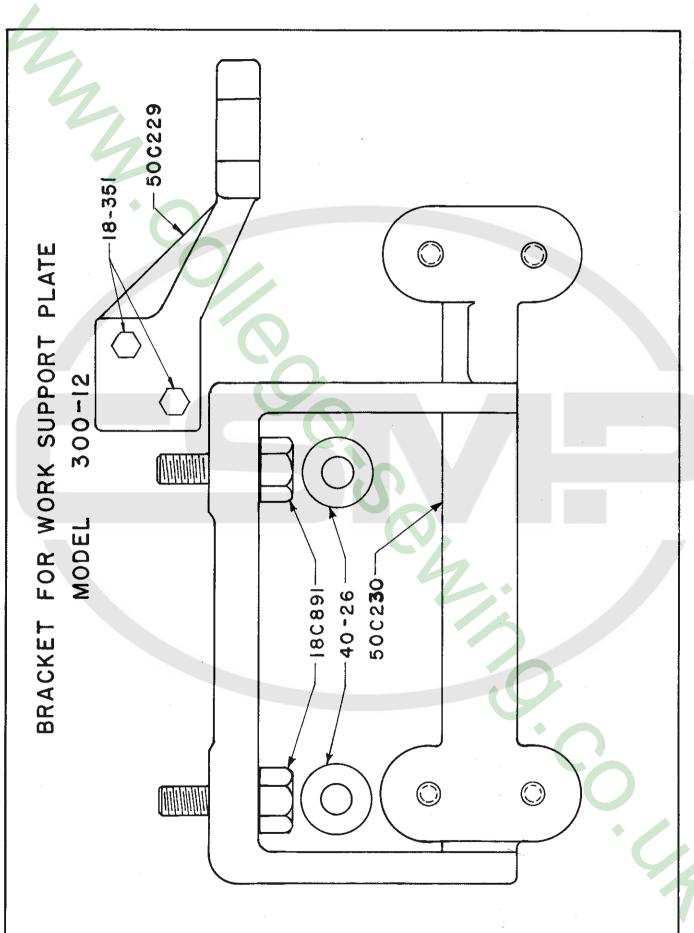
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WORK SUPPORT BRACKET GROUP	MODEL 300-12	Screws for 50 C 229. Screws for attaching work support bracket to machine.	Washers for work support bracket attaching screws, 18 C 891. Support Bracket for left hand rib mechanism.	Support Bracket for left hand rib mechanism.  Bracket for work support plate.	
	PLATE 33	18-351 18 C 891	40-26 50 C 229	50 C 229 50 C 230	

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	PLATES ARE FROM F	AGE 36 TO PAGE 1	03		
PART NO.	PLATE NOS.	PART NO.	PLATE NOS.		
4 C 114-1	32	18 C 94-2	7-9-10-11-12		
4 C 128	15	18 C 97	and 27 1-2-3-4-7-16		
5 C 486	9	100 91	17-18-19-20		
5 C 488	10-11		and 27		
5 C 540	12	18 C 98	1-2-3		
0 0 10		18 C 99	5		
6 C 47	9-10-11-12-13	18 C 100	A-1-2-3-5-16		
	and 14	18 C 102	16-31		
		18 C 103-1	18-19-20		
8 C 72	A		and 28		
		18 C 103-4	17		
14 C 23B-1	1-2-3	18 C 110	5-13-14		
14 C 147	7-27	18-115	16		
14 C 212	24-25	18-120	31 31		
14 C 404	A 27-31	18-121 18-126	16-31		
14 C 419	29	18-129	31		
14 C 420 14 C 421	31	18-134	8		
14 C 421 14 C 422	5	18 C 135	16		
14 C 463	19	18 C 186	$\overset{1}{2}\overset{0}{2}$		
11 C 103	10	18 C 215-1	1-2-7-27		
16 C 52	9-11-12	18 C 216-1	15		
16 C 52-1	10	18 C 216-2	15-21		
16 C 319	31	18 C 218-1	15-21		
		18 C 236	16		
17 C 46	A	18-292	9-10-11-12-13		
17 C 66-1	18-20		and $14$		
17 C 66-2	17-19	18-330	13-14		
17 C 119	16	18-351	33		
17 C 138	4	18 C 317	7 4		
17 C 141	27	18-375 18-497	27		
17 C 142	29	18-622	14		
17 C 144 17 C 165	28 4	18 C 643	10		
11 C 100		18-644	6		
18 C 48	9-10-12	18-657	13-14		
18 C 65-1	1-8	18-710	27-29		
18 C 68	17-18-20-28	18-733	19		
18-71	4	18-738	4		
18-74	4	18-743	8		
18-115	16	18-808	31		
18 C 82	A	18 C 861	16		
18 C 84	1-2-3	18 C 880	6		
18 C 85-1	16	18 C 881	6		
18 C 85-2	A	18 C 884	31		
18 C 86	9-10-11-12-13	18 C 885	30		
10 (7 07	and 14	18 C 889	29 30		
18 C 87	A	18 C 890 18 C 891	15-33		
18 C 88 18 C 90	A 5	18 C 897	5		
18 C 90 18 C 94-1	A-6-7-16-30-31	18 C 904	1-2-3		
エローレージューエ	TT-0-1-T0-00-07	1	1 1 2		

## PLATES ARE FROM PAGE 36 TO PAGE 103

PART NO.	PLATE NOS.	PART NO.	PLATE NOS.
18 C 905	9-10-11-12-13	23 C 281	26
10 C 303	and 14	23 C 293	26
19.006	32	23 C 314	26
18-906			20
18 C 911	13	24 C 123-1	17
18 C 916	21		28
18 C 944	A	24 C 123-2	
18 C 1008	8	24 C 124-1	17
18 C 1014	15	24 C 124-2	28
		24 C 248	18
20-31	4	24 C 292	19
20 C 80-2	A	24 C 298	20
20 C 104	17-18-19-20		
	and 28	27 C 146	2
20 C 106	16-31	27 C 149	7
20 C 107	. 16	·	
20 C 108	17-18-20-28	30 C 36	5
20 C 117	31	30-68	14
20 C 118	30	30 C 258	13
20 C 616	10		
20 0 010 :	10	32 C 207	31
21 C 50	9-11-12	32 C 270	$\overline{16}$
21 C 54B	16-31	32 C 271	A
21 C 54B 21 C 69-3	17-18-19-20		2.4
21 C 09-3	and 28	33 C 6-2	1-2-3
91 C 1E9	and 20 6	33 C 143	27
21 C 153		33 C 148-1	7
21-183	30	33 C 140-1	•
21 C 235	15	36 C 22-1	4
21 C 269	13-22	30 C 22-1	<del>4</del>
21 C 269-1	22	90 C 02 1	^
21-330	8	39 C 83-1	A 1.5
21-385	14	39 C 115	15
21 C 617	10	39 C 122	8
		39 C 130B	7-27
22-8	4	1000	
22 C 51	9-10-11-12	40 C 9A	1-2
22 C 64	1-7	40-18	15
22 C 81-1	A	40-26	33
22 C 81-3	A	40-46	9-10-11-12-13
22 C 81-4	6		and 14
22 C 137	6	40-179	4
22 C 151-1	6	40 C 213-2	6
22 C 214-1	6	40 C 213 S-3	A
22 C 214-2	30	40 C 615	10-12
22 C 214-6	15		
22 C 231	15	41 C 75	A •
22 C 232	15	41 C 76	A
22 C 239	28	•	
22 C 244	6	44 C 78	A
22 C 292	8	44 C 257	31
44 0 434	<b>3</b>	44 C 258	29
23 C 43-1	26	44 C 259	24
	ī ·	44 C 286-1	$\frac{21}{24}$
23 C 43-2	26		

## PLATES ARE FROM PAGE 36 TO PAGE 103

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	PLATES ARE FROM	PAGE 36 TO PAGE 10	03
PART NO.	PLATE NOS.	PART NO.	PLATE NOS.
44 C 286-3 44 C 286-4	24 24	75 C 622	10
44 C 286-7 44 C 293	25 25 25	79 C 32	5
45 C 150 45 C 162	6 15-21	89 C 184	4
45 C 168	1-2-3	97 C 45	A
46 C 10-1 46 C 10-3 46-116 46 C 266-1	1 2 29 7	99 C 11 99 C 157 99 C 158 99 C 317	18-20 17 17 19
47 C 111	27	99 C 611L-2 99 C 611R-2	28 28
48 C 63-1 48-69 48 C 89 B 48 C 164 48 C 167-1	1 27-29 7 8 5	110 C 218 110 C 219 110 C 305 110 C 308	6 6 12 8
49 C 30	8	115 C 113 115 C 114	6 30
50 C 45	9-10-11-12-13 and 14	117 C 3B-2	16
50 C 161 50 C 212 50-223 50 C 229 50 C 230 50 C 242	21 30 13-14 33 33 15	122-35 122-37 122-39 122 C 38	9-12 13 14 10-11
57 C 24-1	1-2-3	131 C 163-1	16-31
61-33 61-49 68 C 77-1	A 31 A	137 C 33 137 C 49-1 137 C 49-2 137 C 49-6	5 12 9 11
68 C 614	10	137 C 620	10
69 C 19	29	149 C 29	8
70 C 46	4	155 C 16	6
71 C 152 71 C 159	6 15	164 C 213-4	17
75 C 112-2 75 C 112-3	9 11	183 C 22 CS 200	31
75-212 75 C 621	16 10	CS 320 1/2	31 30

## PLATES ARE FROM PAGE 36 TO PAGE 103

PI	LATES ARE FROM 1	PAGE 36 TO PAGE 103	
PART NO.	PLATE NOS.	PART NO.	PLATE NOS.
1003	6	431-175 3/8 H-L-M	23
1005	5-8-29		9
1022	A-8-29	433 C 9B-1 433 C 9B-3 433 C 37	$\begin{matrix}2\\1\\1-2-3\end{matrix}$
1071	A	439 C 34	5
1132	A	439 C 116L 439 C 116R 439-127	16. 16 4
1170	4	439 C 234 439 C 255	1 - 2 - 3 $22$
1197	30	444 C 61-1	24
1243	27-31	444 C 61-2 444 C 61-3 444 C 61-4	$egin{array}{c} 25 \ 24 \ 24 \ \end{array}$
1246 .		444 C 61-7	25
1274	A	444 C 171 444 C 257	1-2-3 27-31
1284	29	444 C 259 444 C 293	24 25
1306	29	444 C 329	6,30
1383 1/2	15-21	448 C 132 448-133	27 29
1420	22	449-27	4
404 C 559-2	15	468 C 525-1	A
405 C 486 405 C 488	9	471 C 544	16-31
405 C 488-1 405-509 405-05	11 13	479-8	4
405 C 500 1/2	13	499-297	14 14
405 C 540	12	499-321 499-323	14
405 C 545	14	FP539	14
405 C 545 1/2	14	4117-46	4
416 C 320	1-2-3	4117 C 120	16
431-147	22	4118 C 32 4118 C 35	4 5
431-148	22	4124 C 7	5
431-149	22	4124-41-1/2	4
431-150	22	4124-41	4
431-159	22	4129 C 160	15-21
431-175 3/16 H-L-M	23		
431-175 5/16 H-L-M	23	4149 C 23 4149 C 344	6 30
431-175 1/4	23	4183 C 3B-1	16
H-L-M		4103 C 3D-1	10







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