

MODEL

345-3

345-3P

PARTS BOOK

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- ★ Model 345 Double Chain Stitch Feed-off-the-arm Machine is most suitable for sewing tubes of medium and heavy materials, such as those of jackets, denim trousers, fatigue clothes and work trousers.
- ★Machines made to the puller and denim specifications employ a presser foot, a needle plate, and feed dogs that have steps to prevent sewing irregularity and assure easy sewing of materials which may be different in thickness.
- ★ Machines made to the puller and the denim specifications employ a movable needle guard which makes them ideal for sewing heavy materials.
- *Machines made to the puller and the denim specifications have independent loopers for ease of adjustment.
- ★ Machines made to the puller specifications employ a proximity puller system which assures outstanding feeding performance for a wide range of materials from medium heavy to heavy.



SPECIFICATIONS)

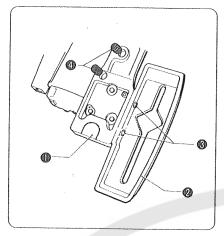
Mode I	345-3	345-2P/345-3P		345-20)P/345-3DP
Stitch pattern	Stitch pattern 3-line parallel sewing		3-line parallel sewing	2-line parallel sewing	3-line parallel sewing
Sewing speed		3	,600 spm		
Stitch length	1.4~4.2mm		2~4	.2mm	
No. of Needle	3	2	3	2	3
Needle gauge	7_{64} 7	⅓16 (4.8mm) ⅓4 (6.4mm)	1/8 1/8 (6.4mm) 5/32 5/32 (8.0mm) 3/16 3/16 (9.6mm)	½ (6.4mm)	½ ½ (6.4mm) 5/325/32(8.0mm)
Needle bar stroke	33.4mm		351	nm	
Minimum tube size			190mm		
Puller device	None	Equipped	Equipped	Equipped ε	Equipped

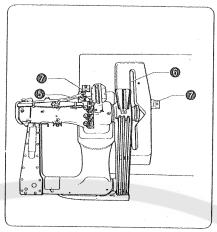
TABLE OF STANDARD GAUGE

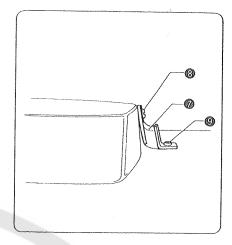
Specifica	tion	Neéd1e gauge	Needle clamp	Needle Plate	Presser foot	Feed dog	Looper assembly	Lapper
		7/64 7/64	7/64 7/64	7/64 7/64	7/64 7/64	7/64 7/64	7/64 7/64	У32 MH
						7 01 . 01	. 01 7 01	⅓32 H
		1/8 1/8	1/8 1/8	1/8 1/8	1/8 1/8	1/8 1/8	1/8 1/8	1/4 MH
Standard	345.3					78 78	/ 0 / 0	1/4 H
Specification	3173	5/32 5/32	5/32 5/32	5/32 5/32	5/32 5/32	5/32 5/32	5/32 5/32	5∕16 MH
								5/16 H
		3/16 3/16 3/16 3/16 3/16 3/16 3/16 3/16	3/16 3/16	16 3/16 3/16	3/16 3/16	3∕8 MH		
			, 120 130	. 10 7 10	710 710	710 710	/16 /16	3∕8 H
Denim Specification 345/P		1/8 1/8	1/8 1/8	1/8 1/8	1/8 1/8	1/8 1/8	1/8 1/8	1∕4 XL
	345/P	5/32 5/32	5/32 5/32	5/32 5/32	5/32 5/32	5/32 5/32	5/32 5/32	5∕16 XL
		3/16 3/16	3/16 3/16	3/16 3/16	3/16 3/16	3/16 3/16	3/16 3/16	3/8 XL

INSTALLING

1 Installing the Machine Head

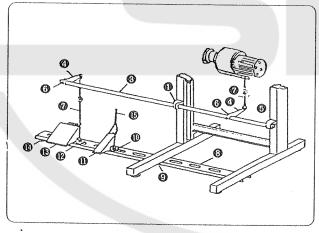


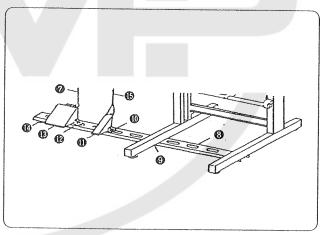




- 1. Install pulley cover base 20 on machine bed 10 with two hexagonal bolts 30.
- 2. Insert bar cushions (a) into the holes in the bottom of the bed.
- 3. Place the machine head on the table, adjust its position in forward and backward directions by aligning it with the hole for presser bar lifter chain **6**, and in sidewise directions by aligning it with belt hole **6**.
- 4. After fastening cushions 70 to the machine bed and pulley cover base with set screws 83, fix them to the table with screws 93.

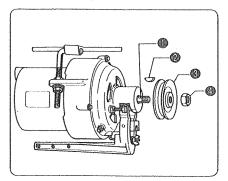
2 Installing the Treadle and Chain





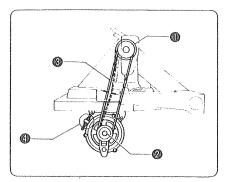
- 1. Fasten connecting lever bearing 1 to the beam in the upper part of the table legs with nut 2.
- 2. Slide connecting lever L ① onto connecting lever shaft ③, fit it to connecting lever bearing ①, and secure it with connecting lever shaft collar ⑥.
- 3. Set connecting lever L @ in line with the clutch lever hole, and tighten it with square head bolts 6.
- 4. Hook connecting rod **10** to the clutch lever and connecting lever L **10**.
- 5. Slide another connecting lever L @ onto connecting lever shaft @, and fix it with square head bolts @.
- 6. Fasten treadle shaft **3** onto the lower beam across the table legs with hexagonal bolts **3**.
- 7. Slide pedal stopper (1) and presser foot lifter pedal (1) onto treadle shaft (2), and fasten it with pedal stopper (1).
- 8. Slide treadle stopper **10** and treadle **10** onto treadle shaft **10**, and fasten treadle stopper **10** in such a way that treadle **10** will move lightly.
- 9. Slide treadle support (6) onto the end of treadle shaft (6), turn it until treadle shaft (6) is parallel with the floor, and fasten it.
- 10. Hook one end of connecting rod 60 to connecting lever L 60, and hook the other end of it to treadle 60.
- 11. Hook one end of chain (5) to the presser foot lifter lever, pass the other end through the hole in presser foot lifter pedal (6), and adjust the chain length so that the pedal will be at the same height as treadle (6).

3 Installing the Motor Pulley



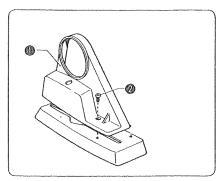
With motor shaft key way (1) up, insert key (2) into the key way, slide motor pulley (3) onto the motor shaft, and fasten it with nut (4).

4 Belt Tension Adjustment



Place belt ③ on machine pulley ① and motor pulley ②, and adjust the belt tension with tension regulator ④ so that the belt sags about 25 to 30 mm when it is pressed with the thumb at the center point between the pulleys.

5 Installing the Pulley Cover



Install pulley cover ① on the pulley cover base with two set screws ②.

6 Motor and Motor Pulley

1. Use the motor specified below

Three-phase 200 V	2-pole, 400 W motor

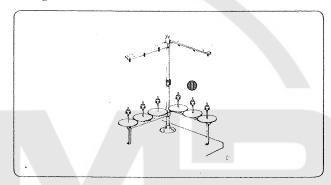
2. Motor Pulley

Use the correct motor pulley suitable to the frequency of your power supply as specified below.

Frequency	Sewing speed	Motor pulley	Belt size
50Hz	3,100	85	M-45
30112	3,600	95	M-46
60Hz	3,100	70	M-44
UUIIZ	3,600	80	M-45

7 Spool Stand

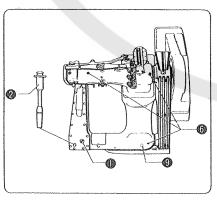
Assemble spool stand (1) as shown below, and install it at the right frontal corner of the table with screws.

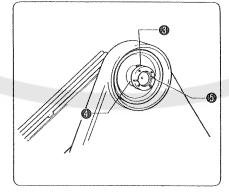


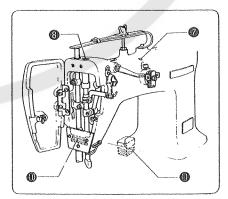
LUBRICATION AND RUNNING IN

1 Lubrication

Be sure to oil the following points before using your sewing machine.





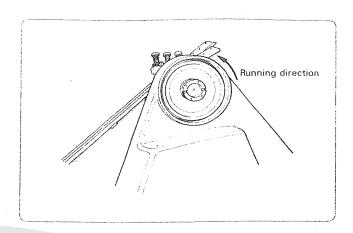


- 1. After setting up the machine, remove adjusting cover screw (1), and pour oil in up to the reference line on oil gauge (2).
- 2. Turn the pulley until oil cap 3 is up, remove oil cap 3 and pour oil into oil tank 4 until it is full. If the oil in the oil tank decreases below tank center line 5, the oil will not be drawn into the upper shaft, causing imperfect lubrication. Be sure to keep the oil in the oil tank above oil tank center line 5.
- 3. Pour about 5 drops of oil weekly into three oil cups (6), upper thread nipper tension bracket oil hole (7), and needle bar bushing oil hole (8).
- 4. Remove oil drain screw (a) from time to time to discharge the used oil which has collected in the front bed oil sump.
- 5. Wipe arm jaw (1) and rear bed oil sump (1) from time to time to remove oil from them. *Use white spindle oil.

2 Running In

- 1. Motor switch on, depress the treadle, and make sure that the pulley runs in the arrow direction.

 If the pulley runs in the opposite direction, remove the plug, and reconnect two of the three wires (but not the earth wire) of the 3-phase cord.
- 2. To run in your machine, operate it at about 3.100 spm for the first 3 or 4 days.



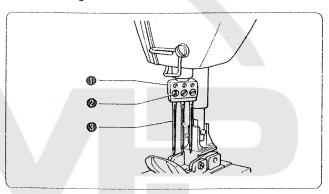
CORRECT OPERATION

1 Needles and Threads

The needle and threads to be used vary depending on sewing conditions. Select the correct ones by referring to the table below.

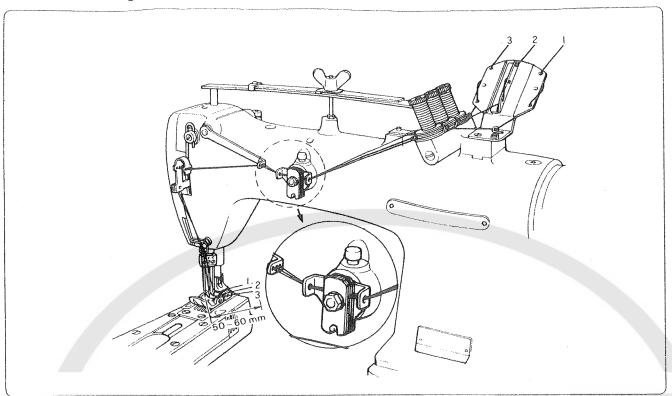
Needle	Thread			
Ideadie	Upper thread	Lower thread		
#16	Cotton #50	Cotton #60		
#19	Cotton #30	Cotton #50		
# 22	Cotton #20	Cotton #30		

2 Installing the Needles

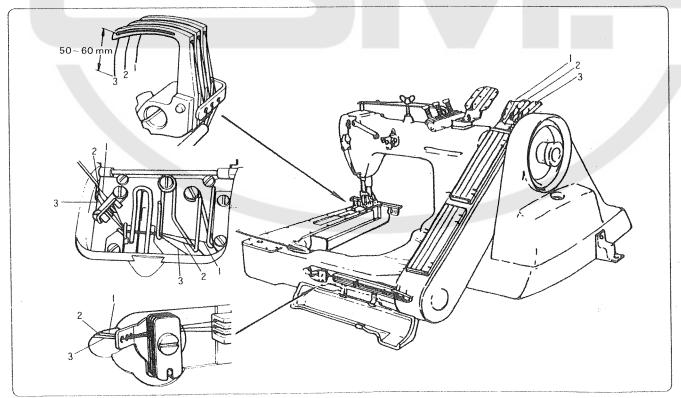


- 1. Turn the pulley until needle holder (1) is raised to the highest position.
- 2. Loosen needle set screws ②, hold needles ③ with their long grooved side facing front, insert them into needle holder ⑤ all the way, and fasten the needle with needle set screws ②.

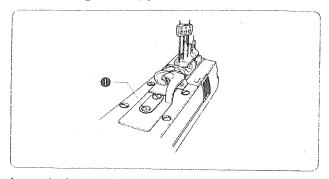
3 Upper Threading

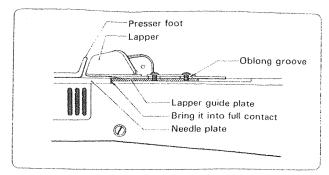


4 Lower Threading



5 Installing the Lapper

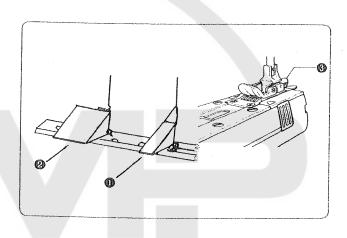




Insert the lapper guide plate into the oblong groove in the forward feed arm, and fit the lapper into place in such a way that its tip will not touch the presser foot.

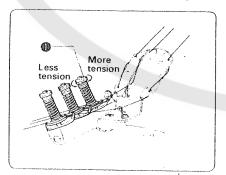
6 Sewing

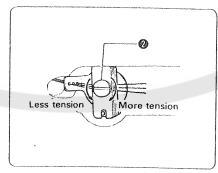
- 1. Switch the power on, step down on presser foot lifter pedal ①, place a fabric under the presser foot, and release presser foot lifter pedal ②.
- 2. Depress treadle 2 to start the machine.
- 3. After sewing the work, keep sewing until it reaches thread cutter 3, and then cut the threads with thread cutter 5.

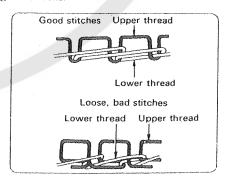


7 Thread Tension

Thread tension differs with sewing conditions. Adjust it to suit your particular sewing conditions.





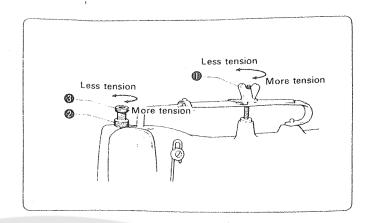


- 1. Adjust the upper thread tension properly by turning upper thread adjusting screw ①.
- 2. Adjust the lower thread tension properly by turning lower thread adjusting screw @

8 Presser Foot Pressure Adjustment

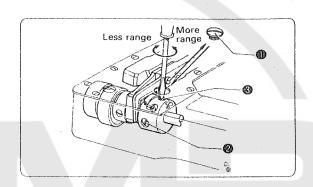
Adjust the presser foot pressure by turning wing nut to such a level that it is just enough to keep the work from slipping.

**In case of Model , the puller pressure can be adjusted as appropriate to the work by loosening adjusting thumbscrew nut ② and turning presser adjusting screw ③.



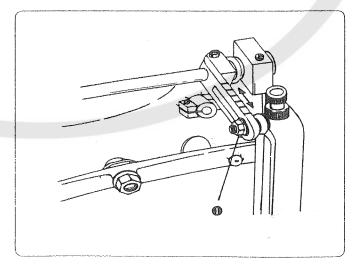
9 Stitch Length Adjustment

- 1. Remove adjusting cap screw 1.
- 2. Turn the pulley toward yourself until set screw ② comes to the position of the adjusting cap screw hole.
- 3. Loosen set screw ② with a screwdriver, turn the pulley again by about one-quarter of a turn in the same direction to bring horizontal eccentric adjusting screw ③ to the position of the adjusting cap screw hole.
- 4. Stitch length will decrease when horizontal eccentric adjusting screw (a) is turned clockwise with the screwdriver, and increase when it is turned counter-clockwise.
- 5. After the adjustment, tighten set screw @ securely.
- **In case of Model , readjust the needle guard after adjusting the stitch pitch. In case of Model -7A and -8A, readjust the needle guard and puller feed.



10 Puller Feed Adjustment

- 1. After adjusting the STITCH LENGTH, you have to readjust the PULLER FEED again.
- Loosen the nut ①, you can get more feed toward outside, get less toward inside.
- 3. After adjusting, tighten the nut 0.

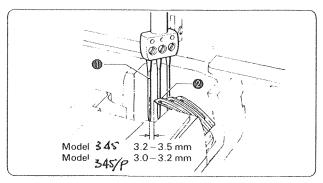


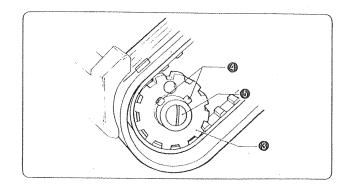
★The table below shows samples of stitches made with a highly elastic fabric and a fabric which is not so elastic. Adjust the puller feed by referring to this table.

Neither non-alignment nor sewing wrinkles. Neither non-alignment nor sewing wrinkles. Non-aligned, and wrinkled. Non-aligned, and wrinkled.	Puller feed	Fabric with high elasticity	Fabric with low elasticity
Insufficient Non-aligned, and wrinkled. Non-aligned, and wrinkled.	Correct		Feed direction
Non-aligned, and wrinkled. Non-aligned, and wrinkled. Excessive			and angiment not sewing writinges.
	Insufficient	Non-aligned, and wrinkled.	Non-aligned, and wrinkled.
Non-aligned, and very wavy. Non-aligned, and very wavy.	Excessive	Non-aligned, and very wavy.	Non-aligned and very wayy

STANDARD ADJUSTMENTS

1 Needle and Looper Timing Adjustment





Model 345-3

Make an adjustment so that, when needles ① come down to the lowest position, loopers ② will be at the end of their backward travel and that the distance between the centers of the needles and the tips of the loopers will be somewhere from 3.2 to 3.5 mm.

Model 345/P

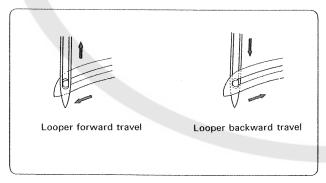
Make an adjustment so that, when needles ① come down to the lowest position, loopers ② will be at the end of their backward travel and that the distance between the centers of the needles and the tips of the loopers will be somewhere from 3.0 to 3.2 mm.

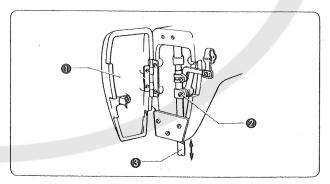
(Adjusting Method)

- 1. Remove the presser foot, needle plate and feed dogs.
- 2. Loosen two set screws @ and cap screw @ on lower belt wheel @.
- 3. Turn the pulley toward yourself until needles ① come down to the lowest position.
- 4. Turn the lower-shaft until loopers @ reach the end of their backward travel.
- 5. Tighten cap screw 6 and two set screws 6 securely.
- 6. Loosen set screw (a), move looper holder (b) in the arrow direction until the distance between the needle center and the looper tip is 3.2 to 3.5 mm, and retighten set screw (b) securely.
- *In case of machines made to the denim specifications, the individual loopers must be adjusted because they are independent of one another.

The looper of standard specification The looper of denim specification

2 Needle Bar Height Adjustment



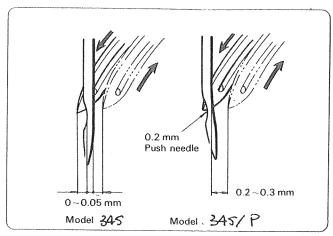


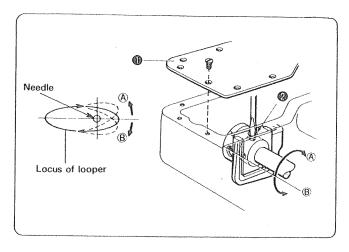
Adjust the needle bar height so that the looper thread eyes will match the needle eyes in the forward and backward travels of the loopers.

(Adjusting Method)

- 1. Turn the pulley toward yourself until the loopers move forward from the rightmost position to a point where the looper thread eyes are in line with the needles eyes.
- 2. Open face plate ①, loosen needle bar clamp screw ②, and move needle bar ③ up or down until the looper thread eyes are in line with the needle eyes.
- 3. Retighten needle bar clamp screw ② securely.
- 4. After the adjustment, turn the pulley toward yourself and make sure that the looper thread eyes match the needle eyes in the forward and backward travels of the loopers.

DI Looper Hilling for Avoiding Contact with Needles





Model 345-3

Make an adjustment so that there will be a clearance of 0 to 0.05 mm between the needles and the loopers in the forward and backward movements of the loopers.

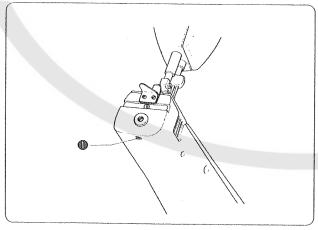
Model 345/P

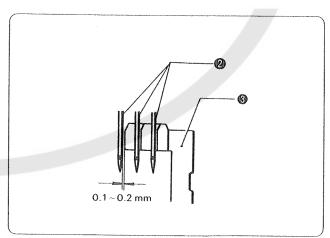
In the forward movement of the loopers, push needles by loopers by 0.2 mm. In the backward movement of the loopers, adjust that the clearance between the loopers and the needles will be 0.2 to 0.3 mm.

(Adjusting Method)

- 1. Remove forward feed arm cover (1), and turn the pulley toward yourself until the longitudinal eccentric wheel stop screw shows itself at adjusting hole (2).
- 2. Loosen the longitudinal eccentric wheel stop screw until it hardly comes out of the surface of the wheel, turn the pulley again toward yourself, and loosen the other stop screw.
- 3. With the screwdriver holding the stop screw, turn the pulley to adjust the clearance between the needles and the loopers.
- 4. After the adjustment, retighten the two stop screws and the forward feed arm cover screw.

A Needle Guard Adjustment Model 345-3





Make an adjustment so that, when the loopers meet the needles in their forward movement, there will be a clearance of 0.1 to 0.2 mm between the needles and the needle guard.

(Adjusting Method)

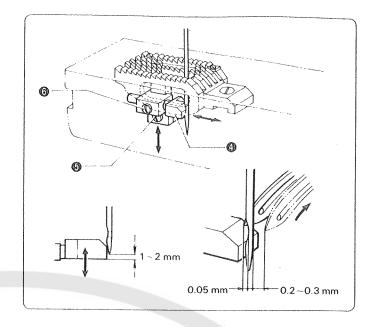
- 1. Turn the pulley toward yourself until the needles come down to the lowest position.
- 2. Loosen stop screw (1) from the underside of the tip of the forward feed arm.
- 3. Adjust the clearance between needles ② and needles guard ③ to somewhere from 0.1 to 0.2 mm by moving needle guard ③
- 4. After the adjustment, retighten stop screw 1 securely.

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The clearance between the needles and the tips of the loopers will be 0.05 mm, pushing the needles by needle guard **6**.

(Adjusting Method)

- 1. Turn the pulley toward yourself until the needles come down to the lowest position.
- 2. Loosen stop screw ①, and raise or lower needle guard ② so that the bottom ends of the needle eyes will be about 0.5 mm above the bottom of needle guard ③.
- 3. Turn the pulley toward yourself again until the tips of the loopers come to the centers of the needles.
- 4. Loosen stop screw ⑤, move needle guard ⑥ to the left or to the right, and adjust so that the clearance between the needles and the tips of the loopers will be 0.05 mm, pushing needle points by needle guard ⑥. At this time, please make sure that the clearance between the loopers and the needles is 0.2 ~0.3 mm in the backward movement of the loopers.



5 Feed Dog Height Adjustment

Model 345-3

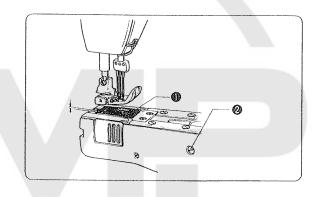
Make an adjustment so that, when feed dog ① is at the highest position, the feed dog will be 0.8 mm above the top surface of the needle plate.

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Make an adjustment so that the highest part of the feed dog will be 1.2 mm above the top surface of the needle plate.

(Adjusting Method)

Adjusting the feed dog height by turning feed base eccentric shaft **2**.

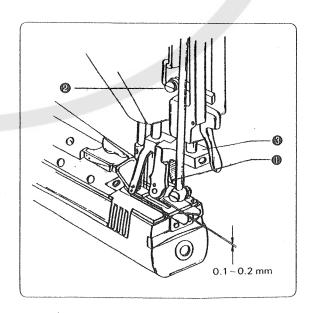


6 Puller Height Adjustment

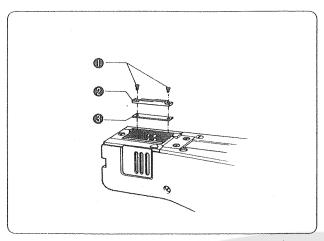
Adjust the height of puller ① so that it is 0.1 to 0.2 mm high from the top of the needle plate.

(Adjusting Method)

Loosen set screw **②**, and move puller support **③** up or down until puller **①** is 0.1 to 0.2 mm above the top of the needle plate.



Installing the Spacer (For the denim specifications)

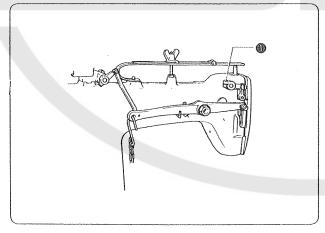


If stitch irregularities develop in sewing very heavy materials, adjust the sub-feed dog to the correct height by spacer.

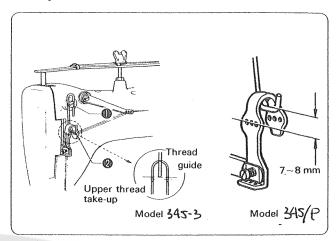
(Adjusting Method)

- 1. Remove set screw 1 and sub-feed dog 2.
- Placer spacer (3) under sub-feed dog (2) and retighten set screw (1).
- *The spacer is in the parts box.

9 Thread Release Lever Adjustment



B Upper Thread Take-up Thread Guide Adjustment



Model 345-3

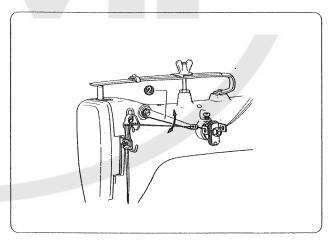
Make an adjustment so that, when the needle bar is down at the lowest position, the top of the upper thread take-up thread hole meets the bottom of the thread guide.

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Please adjust the distance between the center of the upper thread take-up and the top of the thread guide will be $7 \sim 8$ mm.

(Adjusting Method)

- 1. Turn the pulley toward yourself until the needle bar is down at the lowest position.
- 2. Loosen set screw ①, and move upper thread take-up thread guide ② up or down until its bottom meets the top of the upper thread take-up thread hole.
- **The higher the upper thread take-up thread guide
 ②, the greater will be the upper thread loops.

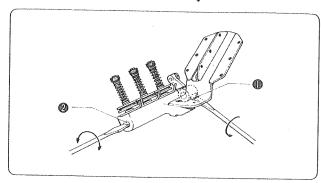


Make an adjustment so that, when the needle bar is down at the lowest position, the thread release lever thread hole meets the thread hole in upper thread tension bracket .

(Adjusting Method)

- 1. Turn the pulley until the needle bar is down at the lowest position.
- 2. Loosen set screw (1), and raise or lower thread release lever (2) until its thread hole meets the thread hole in upper thread tension bracket (3).
- *The higher the thread release lever, the tighter will be the stitches.

Thread Release Shaft Adjustment

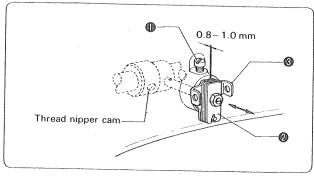


Make an adjustment so that the thread tension discs will loosen when the presser foot is raised, and tighten when the presser foot is lowered.

(Adjusting Method)

- 1. Loosen stop screw 1.
- 2. Make an adjustment by turning thread release shaft ② so that the thread tension discs will begin to loosen when the presser foot is raised 4 mm above the top surface of the needle plate.
- 3. After the adjustment, retighten stop screw securely.

Upper Thread Nipper Adjustment



Adjust the clearance between the upper thread nipper tension bracket and tension plates to somewhere between 0.8 mm and 1.0 mm.

(Adjusting Method)

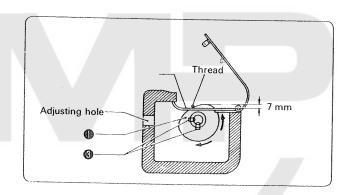
- Loosen stop screw ①, and move upper thread nipper tension bracket ② in or out until the clearance between it and tension plates ③ is somewhere from 0.8 to 1.0 mm.
 *Stitch tightness can be improved by narrowing the clear-

12 Lower Thread Take-up Timing Adjustment

Make an adjustment so that, when the loopers begin to move backward, lower thread take-up will rise about 5 to 7 mm above lower thread take-up bracket ②.

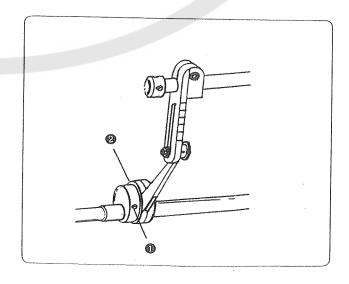
(Adjusting Method)

- 1. Insert a screwdriver into the adjusting hole in the bed, and loosen two stop screws **6**.
- 2. Raise lower thread take-up 1 5 to 7 mm above thread take-up bracket 2.
- 3. After the adjustment, retighten two stop screw 3.



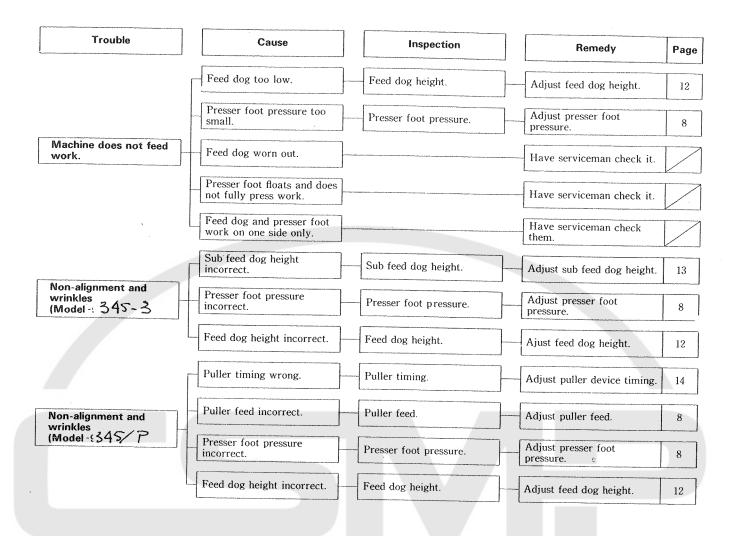
13 Puller Device Timing Adjustment

- 1. With 3mm wrench to loosen the screw 0 & @
- 2. The timing of the feed will be starting when the needle is away from the needle plate about 5 or 6mm, and stoping at 10mm.
- After adjusting the timing, retighten the screw
 & ②



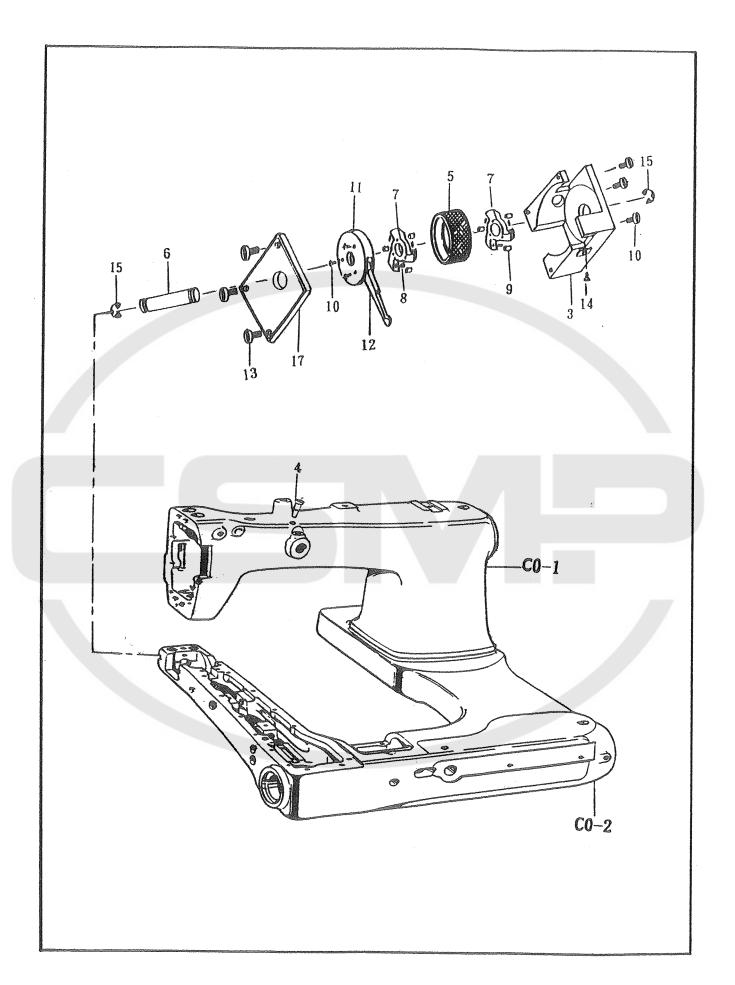
TROUBLESHOOTING

Trouble	Cause	Inspection	Remedy	Pag
	Needles installed improperly.	Direction of long groove.	Refer to instructions for needle installing.	5
	Upper thread tension too great.	Upper thread tension.	Adjust upper thread tension.	7
	Lower thread tension too great.	Lower thread tension.	Adjust lower thread tension.	7
Thread breaks.	Thread release lever out of position.	Thread release lever position.	Adjust thread release lever.	13
	Needle eyes too small for threads.	Needle size and thread count.	Refer to the section on "Needles and Threads".	5
	Loopers damaged.		Smooth loopers with sandpaper or buff.	
	Needles damaged.		Replace needles with good ones.	5
	Needles hit loopers.	Clearance between needles and loopers.	Adjust looper timing to avoid contact with needles.	11
St. H. L.	Needles installed improperly.	Direction of long groove.	Refer to instructions for needle installing.	5
Needles break.	Needles hit needles guard.	Clearance between needles and needles guard.	Adjust needles guard.	11
	Needle eyes too small for threads.	Needle size and thread count.	Refer to the section on "Needles and Threads".	5
	Needles installed improperly.	Direction of long groove.	Refer to instructions for needle installing.	5
	Looper points are dull.		Replace loopers with good ones.	10
Stitches skip.	Needle and looper timing wrong.	Needle and looper timing.	Adjust needle and looper timing.	10
	Clearance between needles and loopers too great.	Clearance between needles and loopers.	Adjust clearance between needles and loopers.	1
	Lower thread take-up timing wrong.	Lower thread take-up timing.	Adjust lower thread take-up timing.	14
	Upper thread tension too small.	Upper thread tension.	Adjust upper thread tension.	7
	Lower thread tension too great.	Lower thread tension.	Adjust lower thread tension.	7
Upper threads loose.	Upper thread take-up thread guide out of position.		Adjust upper thread take-up thread guide position.	13
	Upper thread nipper does not tighten upper threads.	Tension plate clearance.	Adjust upper thread nipper.	14

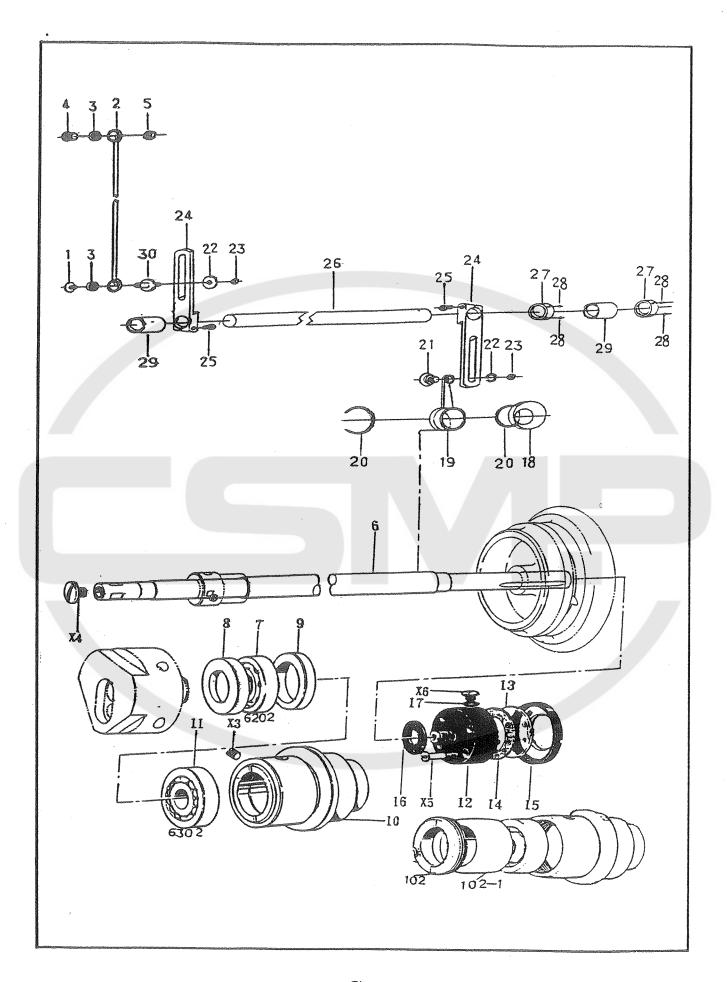


CONTENTS

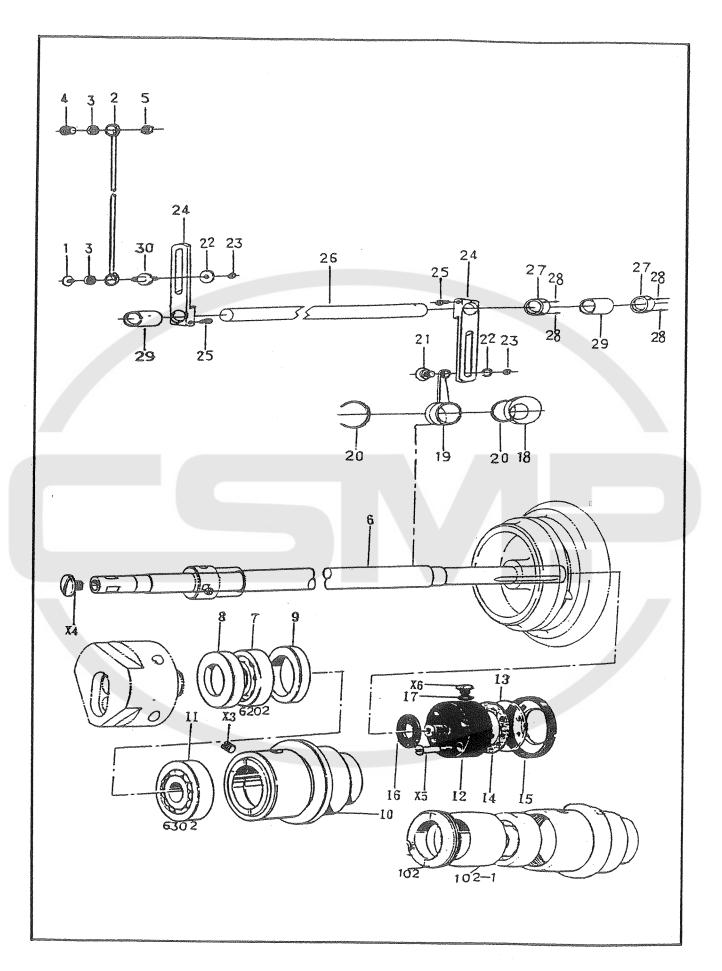
- 1. CO- MACHINE BODY
- 2. C1- UPPER SHAFT MACHANISM
- 3. C2- NEEDLE BAR MECHANISM
 - FEED MECHANISM
- 4. C3- PULLY MECHANISM
- 5. C4- PRESSER BAR MECHANISM
- 6. C5- LOOPER MECHANISM
- 7. C6- UPPER THREADING MECHANISM
- 8. C7- LOWER THREADING MECHANISM
- 9. C8- LOWER SHAFT MECHANISM
 - GAUGE PARTS
- 10 C9- GAUGE PARTS(P)
- 11. C10- GAUGE PARTS(DP)
- 12. C11- PULLER DEVICE MECHANISM
- 13. C12- ACCESSORIES



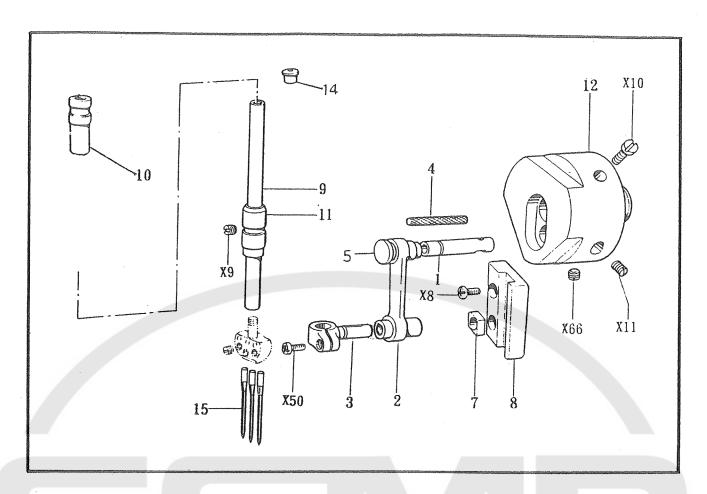
REF . NO.	NAME OF DADING
	NAME OF PARTS
$\begin{array}{ c c c c c c c c c c c c c c c c c c c$	MACHINE HEAD
$\begin{array}{ c c c c c c c c c c c c c c c c c c c$	MACHINE REST BOARD
$\begin{array}{ c c c c c c c c c c c c c c c c c c c$	LOWER WHEEL SEAT
C 0 - 4	OIL PLUG
C0-5	LOWER WHEEL
C0 - 6	LOWER WHEEL CONNECTION
CO - 7	ONE WAY TRIANGULAR AXLE
C 0 - 8	ONE WAY STILL SPRING
C 0 - 9	ONE WAY STILL BALL
C 0 - 1 0	SCREW 238*6
C0 - 11	ONE WAY PUSHING PLATE
C0 - 12	FEED DOG PUSHING PLATE LINK
C 0 - 13	SCREW 9/64*40
C 0 - 1 4	SCREW 11/64*40
C0 - 15	CHOCK RING (E RING)
CO - 17	LOWER WHEEL SEAT CAP
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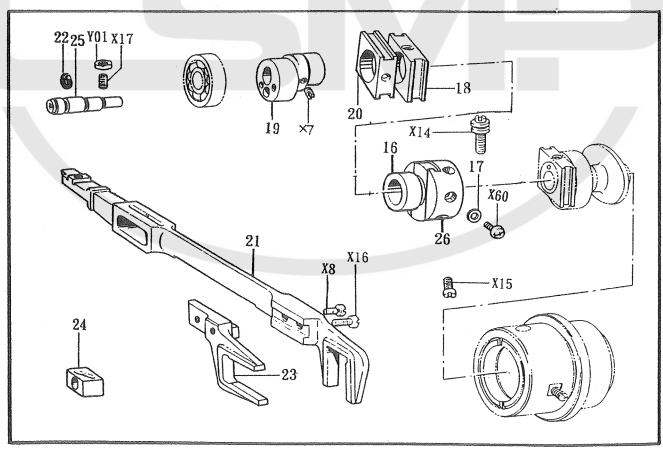


REF . NO.	NAME OF PARTS
C1-1	PULL BAR ENDING SCREW
C1-2	VERTICAL PULL BAR
C1-3	PULL BAR BEARING
C 1 - 4	VERTICAL PULL BAR FIXING SCREW (LOWER)
C1-5	PULL BAR SCREW NUT
C1-6	UPPER SHAFT
C1 - 7	BEARING 6202
C1 - 8	UPPER SHAFT BALL BEARING (LEFT)
C1 - 9	OIL STOPPER
C1 - 10	BEARING CASE ASSEMBLY
C1 - 11	BEARING 6302
C1 - 12	OIL TANK
C1 - 13	OIL GAUGE WINDOW
C1 - 14	PACKING
C1 - 15	OIL GAUGE FLANGE
C1 - 16	OIL TANK PACKING
C1 - 17	PACKING
C1 - 18	UPPER WHEEL ECCENTRIC WHEEL
C1 - 19	UPPER WHEEL MOVING PULL BAR ("8"TYPE)
C1 - 20	CHOCK RING
C1 - 21	PULL BAR SCREW
C1 - 22	FIXING PULL BAR SCREW WASHER
C1 - 23	PULL BAR SCREW NUT
C1 - 24	THICKNESS ADJUSTING PULL BAR
C1 - 25	PULL BAR FIXING PULL BAR
C1 - 26	UPPER WHEEL CONNECTION
C1 - 27	MOVABLE LEFT-RIGHT CHOCK RING
C1 - 28	CHOCK RING SCREW
C1 - 29	CONNECTION COPPER TUBE
$\frac{\text{C 1} - 30}{2}$	VERTICAL PULL BAR
C1 - 102	BEARING FIXING SCREW

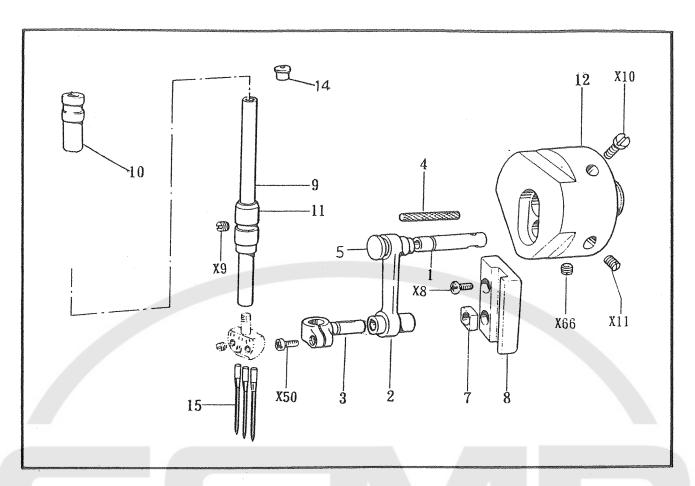


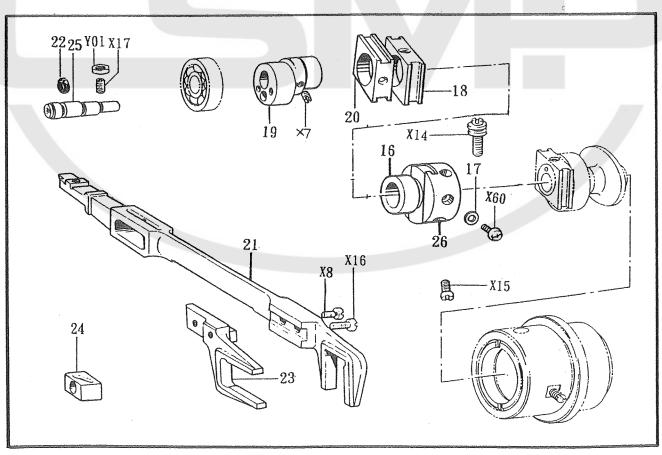
REF .NO.	NAME OF PARTS
C1 - 102 - 1	BEARING FIXING BUSHING
C 1 - X 3	SCREW 7.94
C 1 - X 4	SCREW 7.94
C 1 - X 5	SCREW 3.57
C 1 - X 6	CAP SCREW
·	
	C.
	·



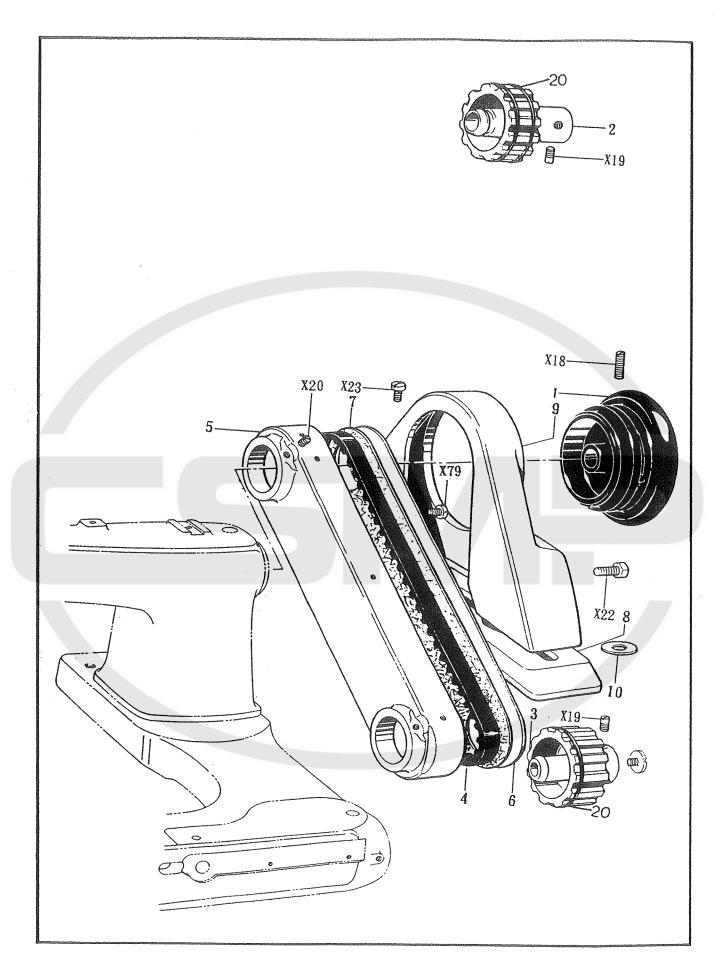


REF . NO.	NAME OF PARTS
C 2 - 1	NEEDLE BAR CRANK
C2 - 2	NEEDLE BAR CRANK ROD
C2 - 3	NEEDLE BAR BRACKET
C2 - 4	WICK
C 2 - 5	OIL LEAK PROOF CAP
C2 - 7	NEEDLE BAR GUIDE SLIDE BLOCK
C 2 - 8	NEEDLE BAR GUIDE
C 2 - 9	NEEDLE BAR
C2 - 10	NEEDLE BAR BUSHING (UPPER)
C2 - 11	NEEDLE BAR BUSHING (LOWER)
C 2 - 1 2	THREAD TAKE-UP CRANK
C2 - 14	OIL CAP
C2 - 15	NEEDLE
C2 - 16	FEED DOG ECCENTRIC AXLE
C2 - 17	WASHER
C2 - 18	ECCENTRIC WHEEL SLEEVE
C 2 - 19	ECCENTRIC WHEEL WITH SCREW
C2 - 20	ECCENTRIC WHEEL SLEEVE
C2 - 21	FEED BAR SLIDE BLOCK ASSEMBLY
C2 - 22	PACKING
C2 - 23	FEED LIFTING FORK
C2 - 24	FEED BAR SLIDE BLOCK
C2 - 25	ECCENTRIC SHAFT
C2 - 26	FEED DOG ECCENTRIC SET
C 2 - X 7	SCREW 6.35
C 2 - X 8	SCREW 437*10
C 2 - X 9	SCREW 5.95
C2-X10	SCREW 5.95
C 2 - X 1 1	SCREW 6.35
C 2 - X 1 4	FEED ECCENTRIC ADJUSTING SCREW
C 2 - X 1 5	SCREW 5.95

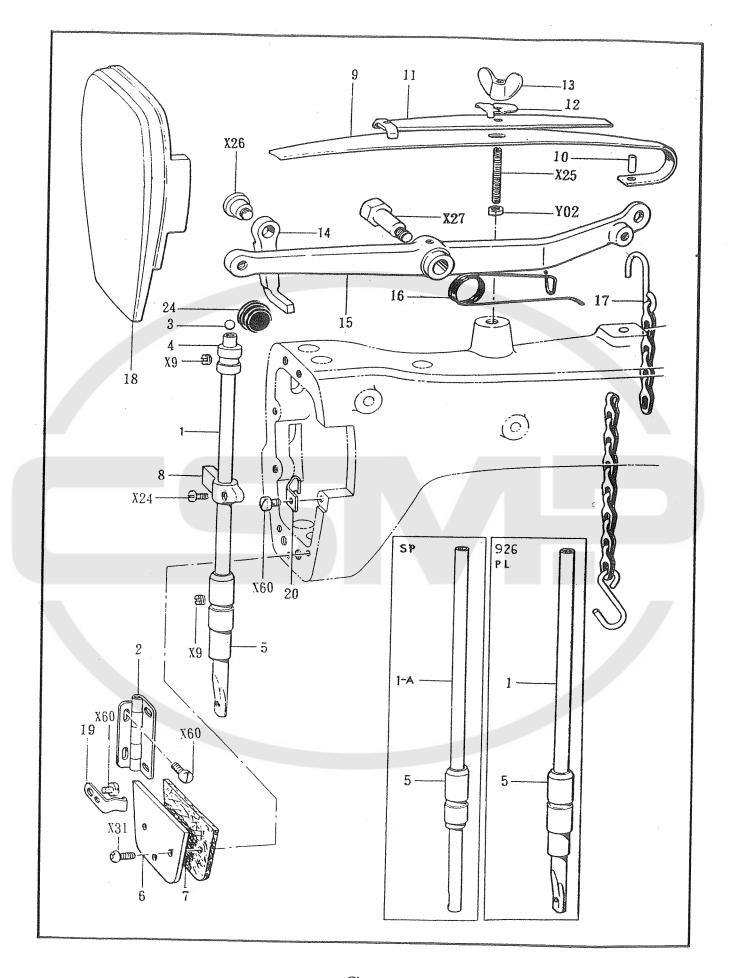




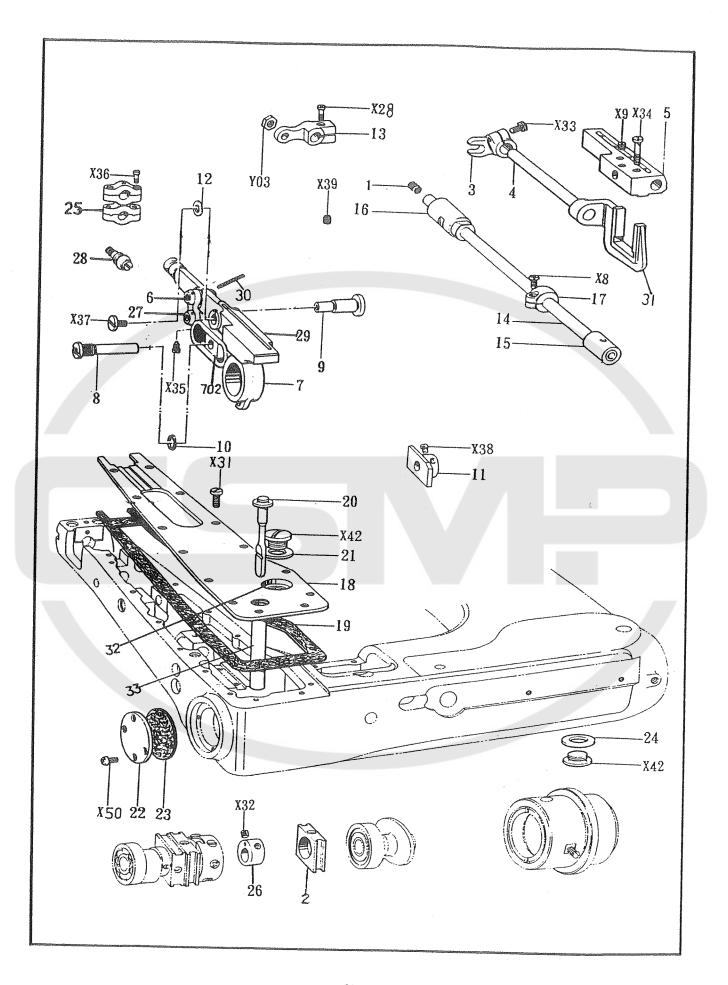
REF . NO.	NAME OF PARTS
C2 - X16	SCREW 437*12
C2 - X17	SCREW 5.95
C2 - X50	SCREW 357*8
C2 - X60	SCREW 3.75*5
C2 - X66	SCREW 6.35
C 2 - Y 0 1	NUT 5.95
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	· ·
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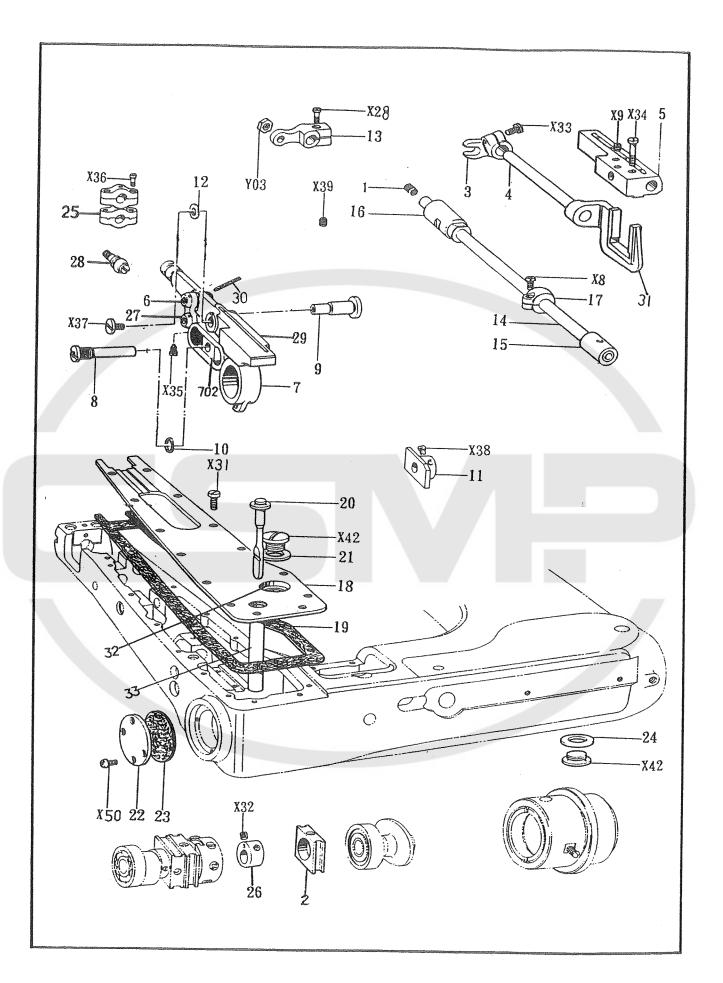
REF . NO.	NAME OF PARTS
C3 - 1	PULLEY
C3 - 2	TIMING BELT WHEEL ASSEMBLY (UPPER)
C3 - 3	TIMING BELT WHEEL ASSEMBLY (LOWER)
C3 - 4	TIMING BELT
C3 - 5	BELT COVER
C3 - 6	BELT COVER PLATE
C3 - 7	PACKING
C3 - 8	PULLEY COVER BASE
C3 - 9	PULLEY COVER
C3 - 10	WASHER
C3 - 20	SPRING COIL
C3 - X18	SCREW 5.95
C3 - X19	SCREW 6.35*12
C3 - X20	SCREW 6.35
C3 - X22	SCREW 11.11
C3 - X23	SCREW 6.35
C3 - X79	SCREW 476*8
	'



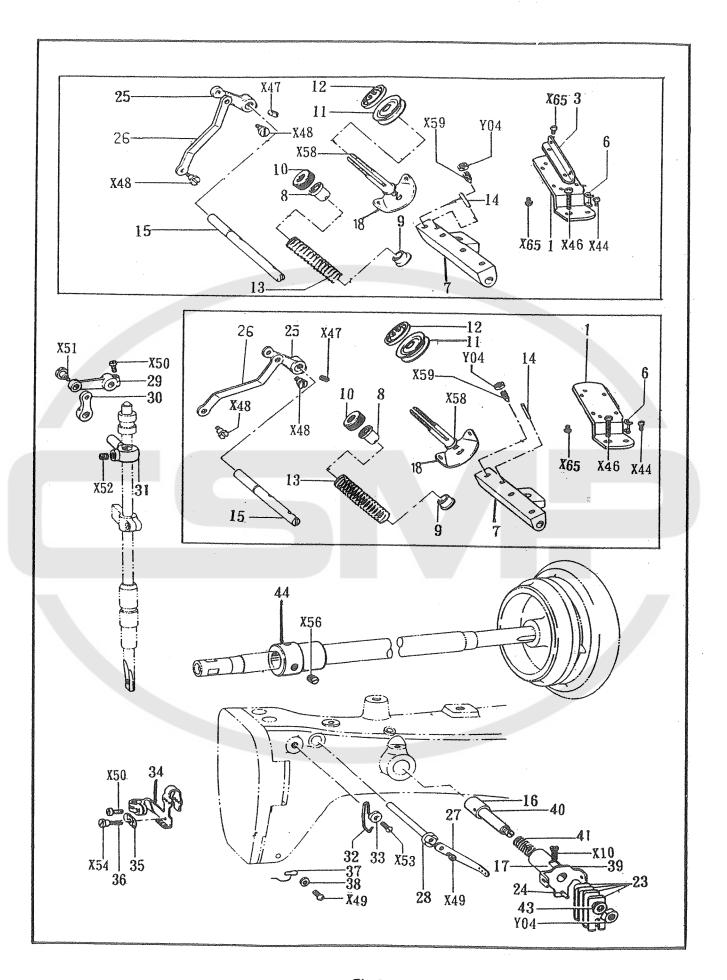
REF .NO.	NAME OF PARTS
C4 - 1	PRESSER BAR
C4 - 2	FACE PLATE UPPER HINGE ASSEMBLY
C4 - 3	STEEL BALL
C 4 - 4	PRESSER BAR BUSHING (UPPER)
C4 - 5	PRESSER BAR BUSHING (LOWER)
C4 - 6	FACE PLATE (LOWER)
C4 - 7	PACKING
C4 - 8	PRESSER BAR CLAMP ASSEMBLY
C4 - 9	PRESSER PLATE SPRING
C4 - 10	PRESSER PLATE SPRING PIN
C4 - 11	PRESSER PLATE SPRING ASSEMBLY
C4 - 12	GUIDE WASHER
C4 - 13	WING NUT
C4 - 14	PRESSER BAR LIFTER
C4 - 1.5	KNEE LIFTER LEVER
C4 - 16	KNEE LIFTER SPRING
C4 - 17	PRESSER FOOT LIFTER CHAIN ASSEMBLY
C4 - 18	FACE PLATE (UPPER)
C4 - 19	STOPPER SPRING PLATE (L)
C4 - 20	STOPPER SPRING PLATE (S)
C4 - 24	OIL CAP
C4 - X9	SCREW 5.95
C4 - X24	SCREW 4.37
C4 - X25	PRESSER ADJUSTING SCREW
C4 - X26	STUD SCREW 5.95
C4 - X27	STUD SCREW 7.94
C4 - X31	SCREW 357*10
C4 - X60	SCREW 3.75
C4 - Y02	NUT 4.76



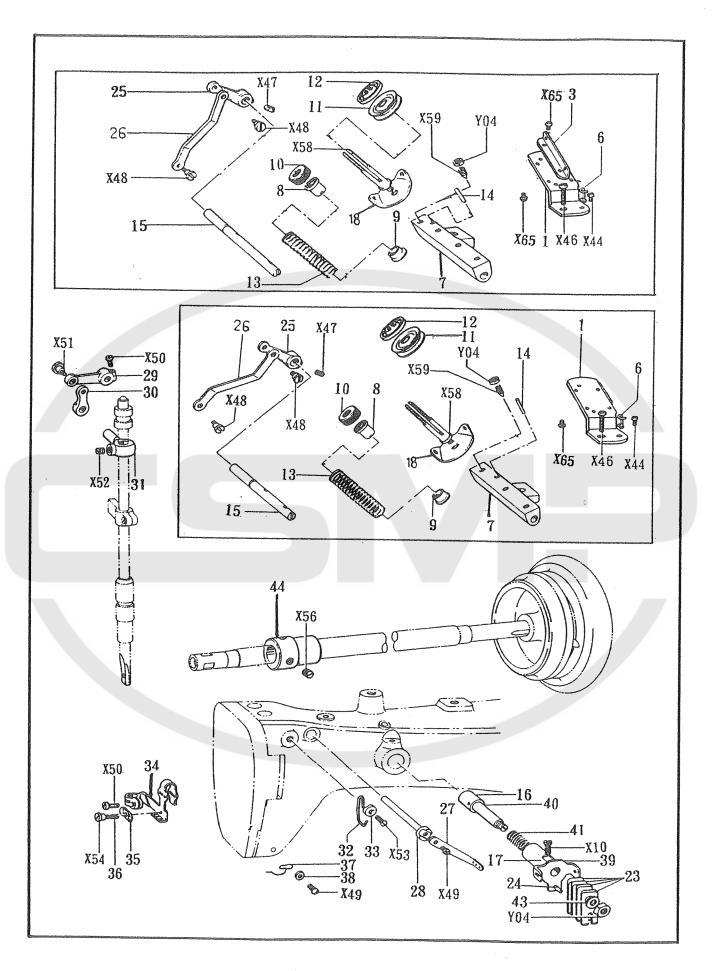
REF . NO.	NAME OF PARTS
C 5 - 1	OIL CAP
C 5 - 2	ECCENTRIC WHEEL SLEEVE
C 5 - 3	LOOPER FEEDING FORK
C 5 - 4	LOOPER FEEDING SHAFT
C 5 - 5	LOOPER FEEDING SHAFT RECEIVER
C 5 - 6	PIN
C 5 - 7	LOOPER FRONT-REAR TRANSMISSION
C 5 - 8	SLIDE BROCK SHAFT
C 5 - 9	LOOPER LEVER SHAFT
C5 - 10	PACKING
C5 - 11	LOOPER CONNECTING ROD GUIDE PLATE
C5 - 12	WASHER
C5 - 13	LOOPER SHAFT CLAMP
C 5 - 1 4	LOOPER SHAFT
C 5 - 15	LOOPER SHAFT BUSHING (FRONT)
C5 - 16	LOOPER SHAFT BUSHING (REAR)
C 5 - 17	SET COLLAR
C5 - 18	LOOPER FEED ARM LID ASSEMBLY
C5 - 19	PACKING
C5 - 20	OIL GAUGE
C5 - 21	PACKING
C 5 - 22	CAP PLATE
C5 - 23	PACKING
C5 - 24	PACKING
C5 - 25	"8" TYPE TRANSMISSION DEVICE
C5 - 26	ECCENTRIC WITH SCREW
C5 - 27	EYEPIECE
C5 - 28	STEEL BALL
C5 - 29	LOOPER SLIDE BASE
C5 - 30	WICK
C5 - 31	LOOPER LEFT-RIGHT MOVING SET



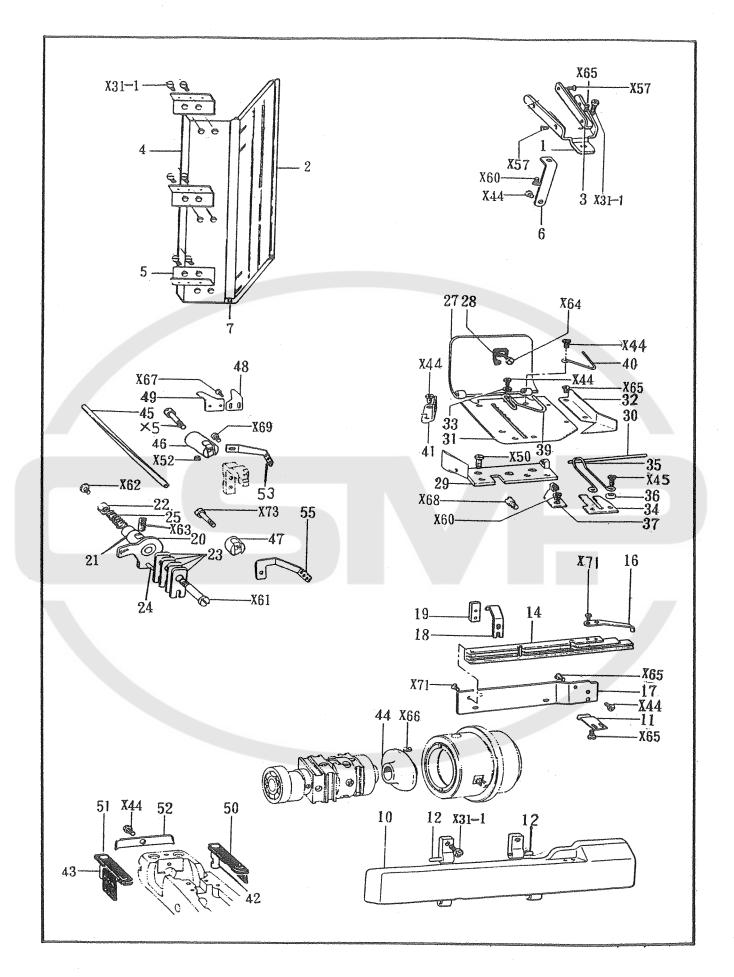
REF .NO.	NAME OF PARTS
C 5 - 3 2	
C 5 - 3 3	
C5 - 702	SQUARE BALL
C 5 - X 8	SCREW 437*7
C 5 - X 9	SCREW 5.95
C5 - X28	SCREW 4.37
C5 - X31	SCREW 3.57
C5 - X32	SCREW 4.37
C5 - X33	SCREW 4.37*10
C5 - X34	SCREW 4.76
C5 - X35	SCREW 2.38
C5 - X36	SCREW 3.57
C5 - X37	SCREW 4.37
C5 - X38	SCREW 4.37
C5 - X39	SCREW 5.95
C5 - X42	SCREW 12.70
C 5 - X 5 0	SCREW 357*5
C 5 - Y 0 3	NUT 5.95
	·



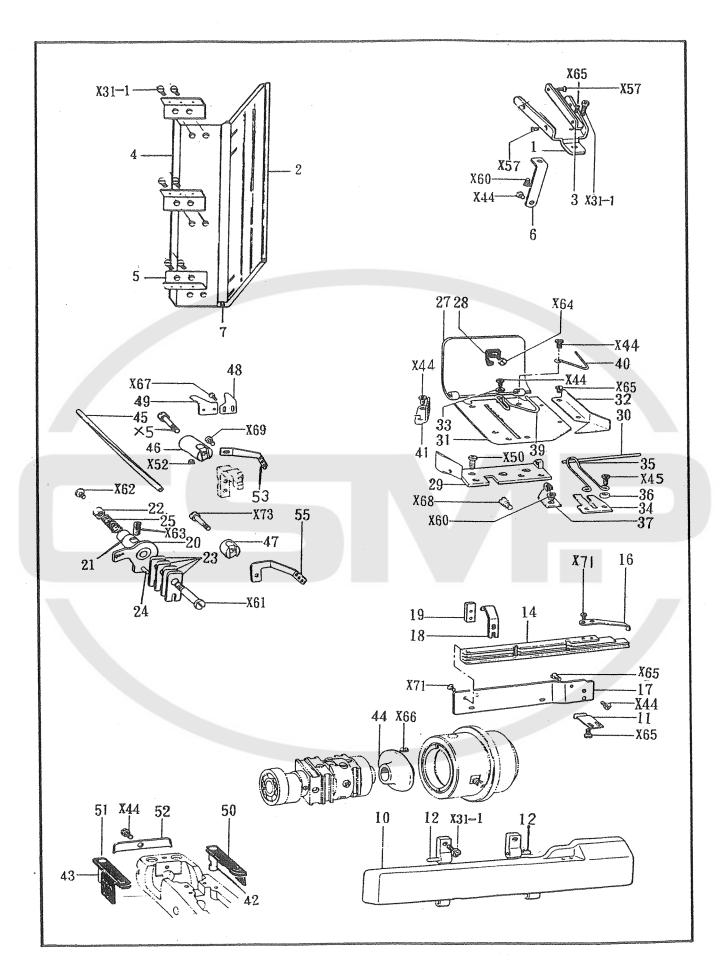
REF . NO.	NAME OF PARTS
C 6 - 1	UPPER THREAD GUIDE RETAINER
C 6 - 3	BRACKET
C 6 - 6	THREAD HANGER
C 6 - 7	LINE GUIDE DEVICE
C6 - 8	TENSION SPRING WASHER
C6 - 9	TENDION SPRING WASHER
C6 - 10	UPPER THREAD TENSION ADJUSTING NUT
C6 - 11	TENSION DISC
C6 - 12	TENSION DISC PRESSER
C6 - 13	UPPER THREAD TENSION SPRING
C 6 - 1 4	UPPER THREAD RELEASE PIN
C6 - 15	THREAD RELEASER SHAFT
C6 - 16	
C6 - 17	CAS for FIG. Sim. Sim. Sim. Sim. Sim. Sim. Sim. Sim
C 6 - 18	UPPER THREAD TENSION SUTD SCREW
C 6 - 23	LOWER THREAD TENSION PLATE
C6 - 24	PIN
C6 - 25	TENSION RELEASE CRANK
C6 - 26	TENSION RELEASE CONNECTING BAR
C6 - 27	THREAD RELEASER LEVER
C6 - 28	THREAD RELEASER LEVER SHAFT
C6 - 29	TENSION RELEASE CONNECTING ROD
C6 - 30	TENSION RELEASE LINK
C 6 - 31	TENSION RELEASE SUTD
C 6 - 32	THREAD GUIDE
<u>C6 - 33</u>	WASHER
C 6 - 3 4	UPPER THREAD TAKE-UP LEEVER ASSEMLY
<u>C6 - 35</u>	THREAD CHECKER
C6 - 36	SPRING
$\begin{array}{c c} C6 - 37 \\ \hline \end{array}$	LOEWR THREAD GUIDE
C 6 - 38	WASHER



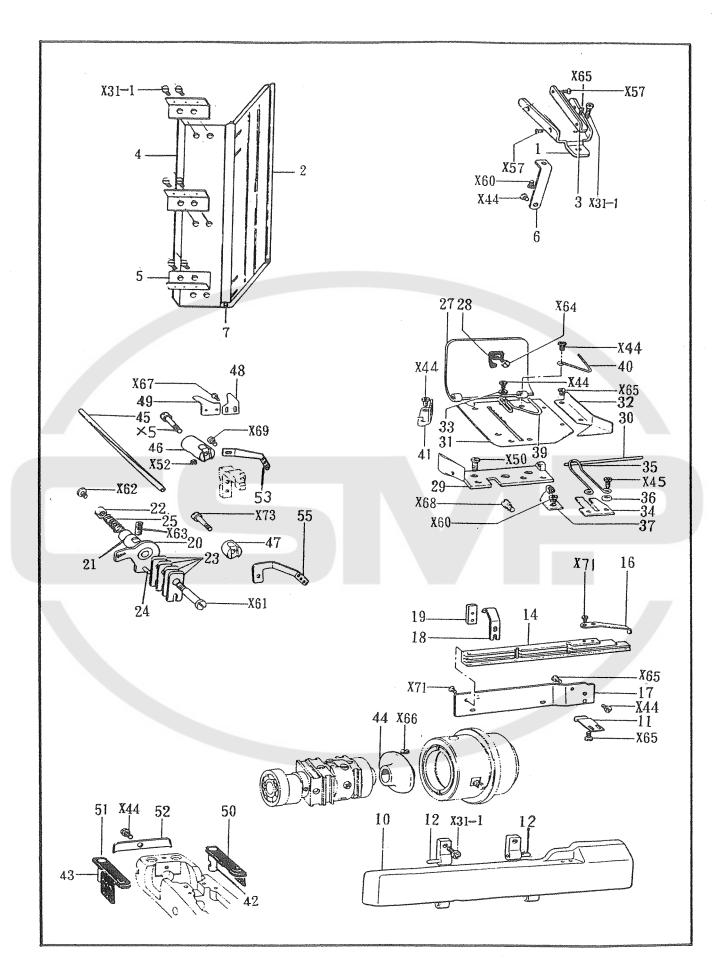
REF .NO.	NAME OF PARTS
C6 - 39	UPPER THREAD TENSION REGULATOR ASSEMBLY
C6 - 40	UPPER THREAD TENSION SUTD ASSEMBLY
C6 - 41	UPPER THREAD TENSION SPRING
C6 - 43	WASHER
C6-44	UPPER THREAD FASTENING CAM WITH SCREW
C6 - X10	SCREW 5.95
C6 - X44	SCREW 357*5
C6 - X46	SCREW 476*20
C6 - X47	SCREW 4.37
C6 - X48	SCREW 3,57
C6 - X49	SCREW 3.57*6
C6 - X50	SCREW 3.57
C6 - X51	SCREW 4.76
C6- X52	SCREW 5.95*6
C6 - X53	SCREW 3.57
C6- X54	SCREW 2.38
C6 - X56	SCREW 5.95
C6 - X58	UPPER THREAD TENSION STUD SCREW
C6 - X59	SCREW 4.37
C6-X65	SCREW 238*4
C6 - Y04	NUT 4.37



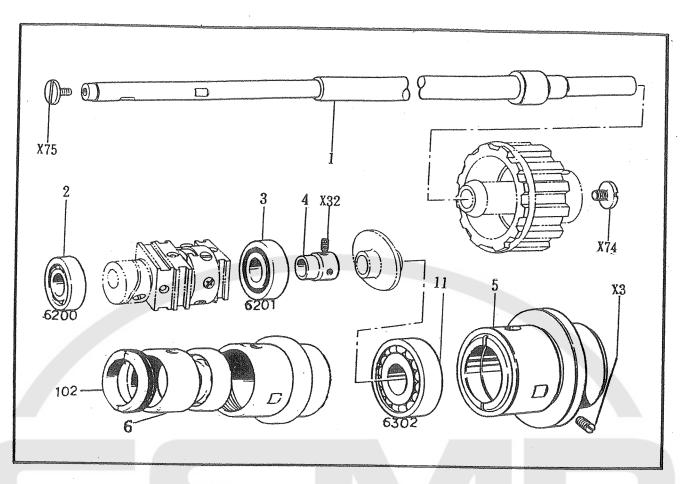
DEE NO	
REF .NO.	NAME OF PARTS
C7-1	LOWER THREAD GUIDE RETAINER
C7-2	UPPER COVER
C7 - 3	BRACKET
C7-4	MACHINE REST BOARD
C7 - 5	FIXING SEAT
C7 - 6	LOWER THREAD GUIDE SUPPORTER
C7 - 7	FIXING PIN
C7 - 10	LOWER THREAD COVER
C7 - 11	PLATE SPRING
C7 - 12	LOWER THREAD GUIDE HINGE ASSEMBLY (L)
C7 - 13	LOWER THREAD GUIDE HINGE ASSEMBLY (R)
C7 - 14	LOOPER CONNECTOR GUIDE PLATE
C7 - 16	THREAD KEEPER
C7 - 17	HORIZONAL THREAD GUIDE PLATE
C7 - 18	HORIZONAL TUBULAR GUIDE PLATE SPRING
C7 - 19	POSITON PLATE
C7 - 20	LOWER THREAD TENSION BRACKET
C7 - 21	LOWER THREAD
C7 - 22	LOWER THREAD TENSION NUT ASSEMBLY
C7 - 23	LOWER THREAD TENSION PLATE
C7 - 24	PIN
C7 - 25	LOWER THREAD TENSION SPRING
C7 - 27	THREAD TAKE-UP LEVER COVER
C7 - 28	SPRING
C7 - 29	LOWER THREAD TAKE-UP LEVER FRAME
C7 - 30	LOWER THREAD TAKE-UP LEVER COVER SHAFT
C7 - 31	LOWER THREAD TAKE-UP LEVER BASE
C7 - 32	GUIDE PLATE
C7 - 33	WASHER
C7 - 34	LOWER THREAD GUIDE PLATE
C7 - 35	SCREW

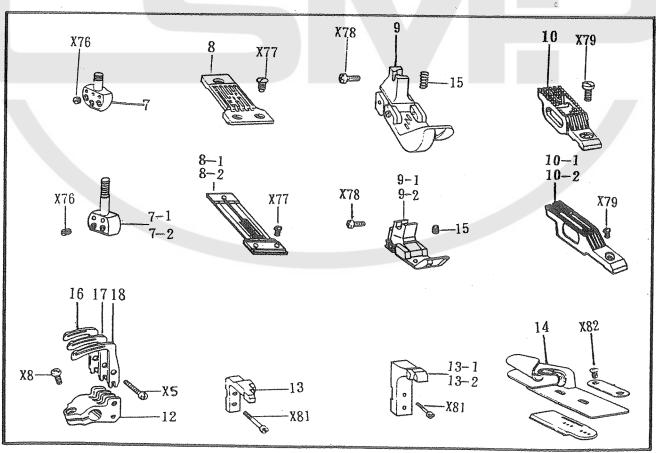


DEE NO	
REF .NO.	NAME OF PARTS
$\frac{0.7 - 3.6}{0.7}$	WASHER
$\frac{\text{C } 7 - 3 7}{\text{C } 7}$	LOWER THREAD GUIDE (LEFT)
$\frac{c_{7}-3_{9}}{}$	LOWER THREAD GUIDE (RIGHT)
C7 - 40	LOWER THREAD GUIDE (LEFT)
C7 - 41	LOWER THREAD GUIDE PLATE
C7 - 42	PIN
C7 - 43	PIN
C7 - 44	LOWER THREAD TAKE-UP DISC ASSEMBLY
C7 - 45	LOWER THREAD FEED TUBE
C7 - 46	LOOPER THREAD GUIDE BRACKET
C7 - 47	LOOPER THREAD GUIDE BRACKET
C7 - 48	THREAD CUTTER GUIDE PLATE
C7 - 49	THREAD CUTTER
C7 - 50	LOOPER SIDE COVER (RIGHT)
C7 - 51	LOOPER SIDE COVER (LEFT)
C7 - 52	SPRING
C7 - 53	LOOPER GUIDE
C7 - 55	LOWER THREAD GUIDE
C7 - X5	SCREW 357*14
C7 - X31 - 1	SCREW 357*10
C7 - X44	SCREW 357*5
C7 - X45	SCREW 9/64*40
C7 - X50	SCREW 3.57
C7 - X52	SCREW 5.95*6
C7 - X57	SCREW 2.38
C7 - X60	SCREW 357*4
C7 - X61	LOWER THREAD TENSION ADJUSTING SCREW
C7 - X62	SCREW 357*6
C7 - X63	SCREW 5.95*16
C7 - X64	SCREW 2.38
C7 - X65	SCREW 238*4

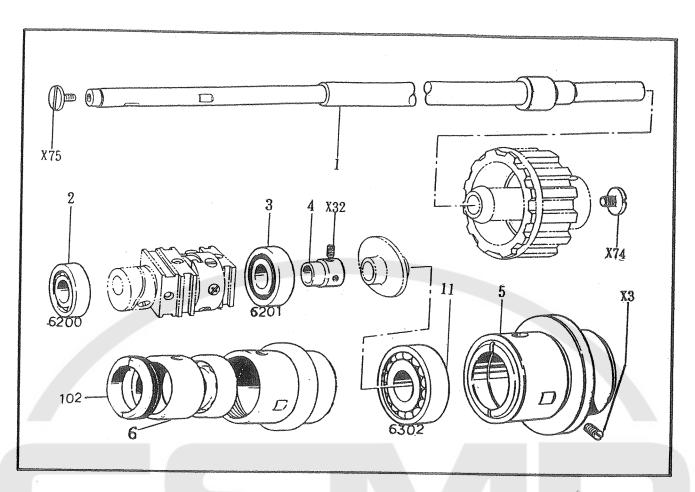


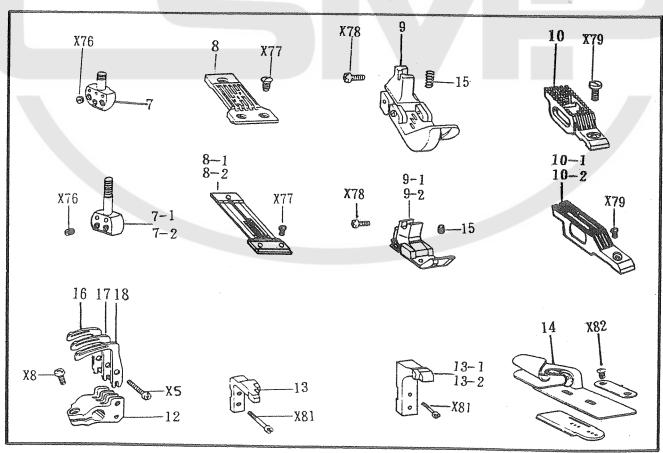
	NAME OF PARTS
REF .NO.	
C7 - X66	SCREW 6.35
C7 - X67	SCREW 238*6
C7 - X68	SCREW 4.37
C7 - X69	SCREW 318*6
C7 - X71	SCREW 2.38*4
C7 - X73	SCREW 357*14
	•



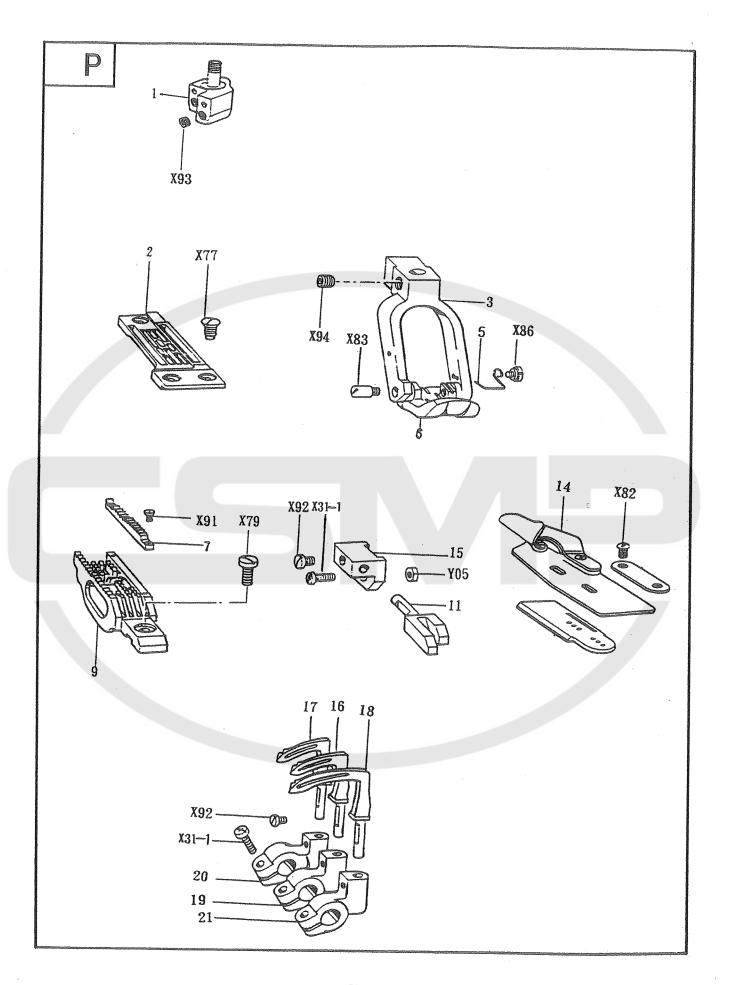


REF .NO.	NAME OF PARTS
C8 - 1	LOVER SHAFT
C8 - 2	BEARING 6200 Z
C8 - 3	BEARING 6201 Z
C8 - 4	BALL BEARING BUSHING
C8 - 5	BEARING CASE ASSEMBLY
C8 - 6	BEARING FIXING BUSHING
C8 - 7	NEEDLE CLAMP WITH SCREW
C8 - 7 - 1	NEEDLE CLAMP WITH SCREW 1/4
C8 - 7 - 2	NEEDLE CLAMP WITH SCREW 3/16
C8 - 8	NEEDLE PLATE
C8 - 8 - 1	NEEDEL PLATE 1/4
C8 - 8 - 2	NEEDEL PLATE 3/16
C8 - 9	PRESSER FOOT ASSEMBLY
C8 - 9 - 1	PRESSER FOOT ASSEMBLY 1/4
C8 - 9 - 2	PRESSER FOOT ASSEMBLY 3/16
C8 - 10	FEED DOG
C8 - 10 - 1	FEED DOG 1/4
C8 - 10 - 2	FEED DOG 3/16
C8 - 11	BEARING 6302
C8 - 12	LOOPER HOLDER ASSEMBLY
C8 - 13	NEEDLE GUARD
C8 - 13 - 1	NEEDLE GUARD 1/4
C8 - 13 - 2	NEEDLE GUARD 3/16
C8 - 14	LAPPER ASSEMBLY
C8 - 16	LOOPER SHORT
C8 - 17	LOOPER MEDIUM
C8 - 18	LOOPER LONG
C8 - 102	BEARING FIXING SCREW
C8 - X3	SCREW 7.94
C8 - X5	SCREW 357*16
C8 - X8	SCREW 437*10

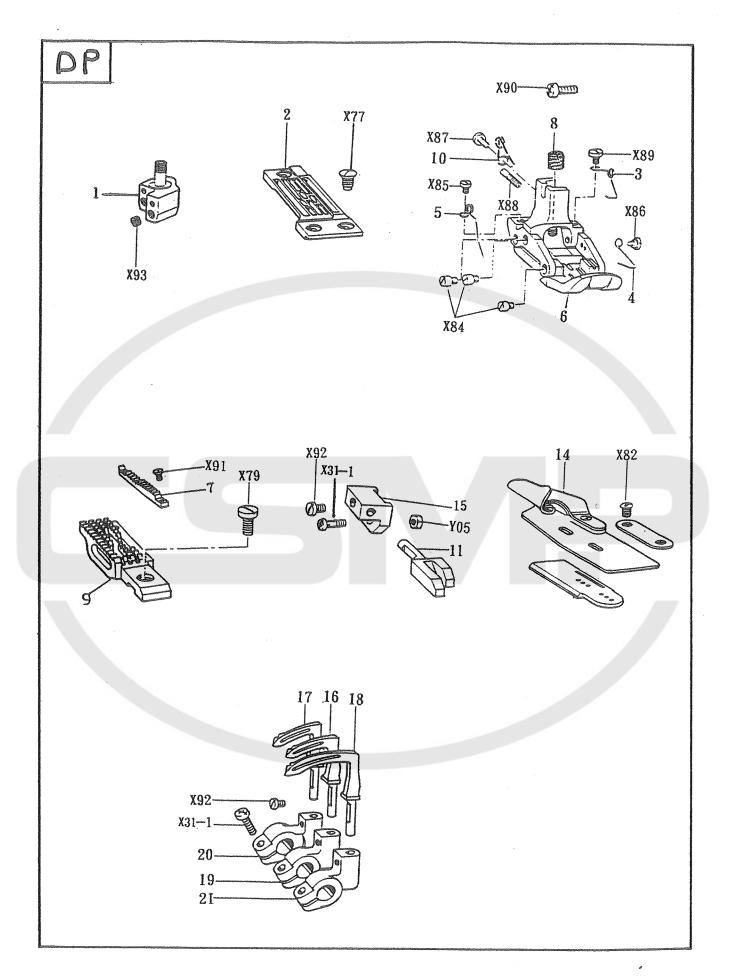




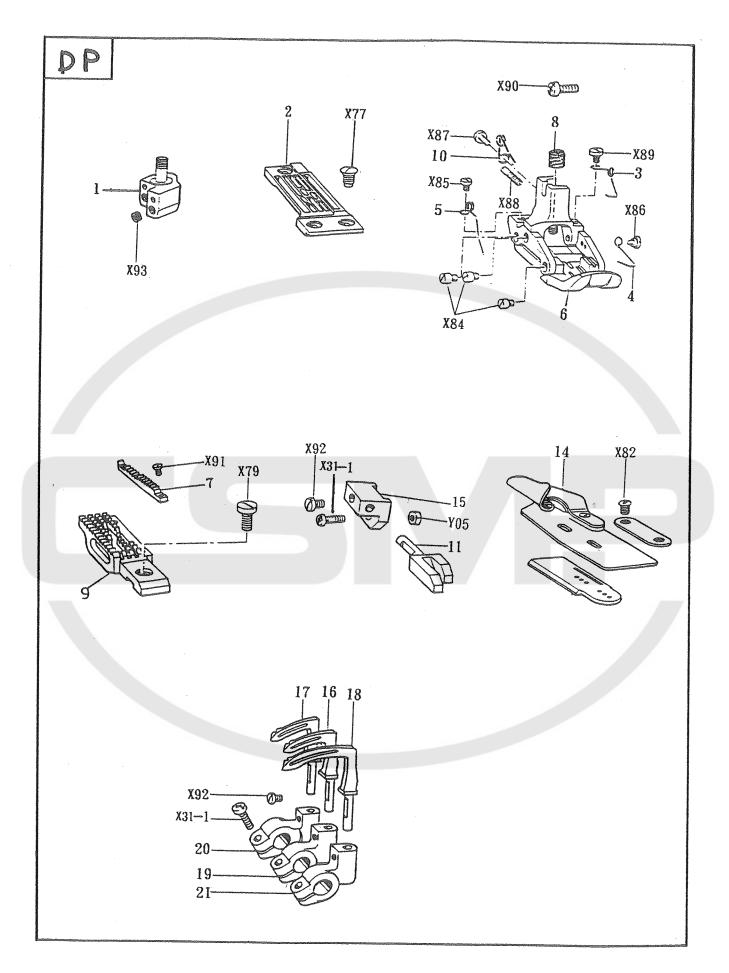
REF . NO.	NAME OF PARTS
C8 - X32	SCREW 4.37
C8 - X74	SCREW 6.35
C8 - X75	SCREW 4.37
C8 - X76	SCREW 4.37
C8 - X77	SCREW 4.37
C8 - X78	SCREW 3.57*8
C8 - X79	SCREW 4.76
C8 - X81	SCREW 3.57
C8 - X82	SCREW 3.57
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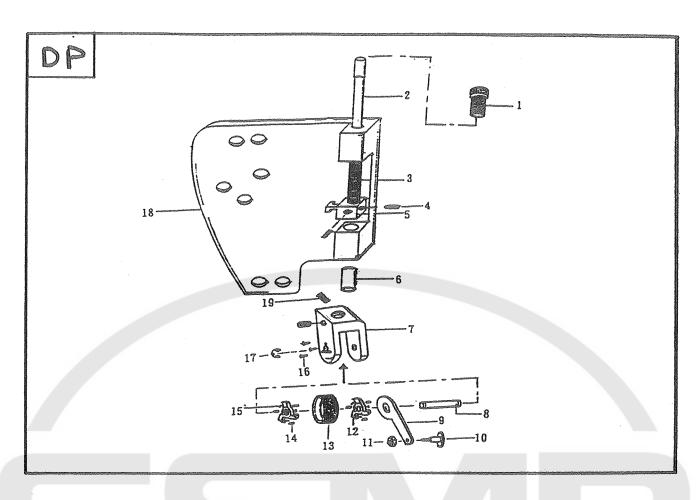
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REF . NO.	NAME OF PARTS
C 9 - 1	NEEDLE CLAMP ASSEMBLY
C9 - 2	NEEDLE PLATE
C 9 - 3	PRESSER FOOT ASSEMBLY
C 9 - 5	PRESSER FOOT (F) SPRING
C9 - 6	PRESSER FOOT ASSEMBLY
C9 - 7	SUB FEED DOG
C9 - 9	FEED DOG
C9 - 11	NEEDLE GUARD
C9 - 14	LAPPER ASSEMBLY
C9 - 15	NEEDLE GUARD BRACKET
C9 = 16	LOOPER (SHORT)
C9 - 17	LOOPER (MIDDLE)
C9 - 18	LOOPER (LONG)
C9 - 19	LOOPER HOLDER (SHORT)
C9 - 20	LOOPER HOLDER (MIDDLE)
C9 - 21	LOOPER HOLDER (LONG)
C9 - X31 - 1	SCREW 357*10
C9 - X77	SCREW 4.37
C9 - X79	SCREW 4.76
C9 - X82	SCREW 3.57
C9 - X83	PIN
C9 - X86	SCREW 2.38
C9 - X91	SCREW 1.98
C9 - X92	SCREW 3.57
C9 - X93	SCREW 3.18
C9 - X94	SCREW 5.95
C9 - Y05	NUT 3.57
3	

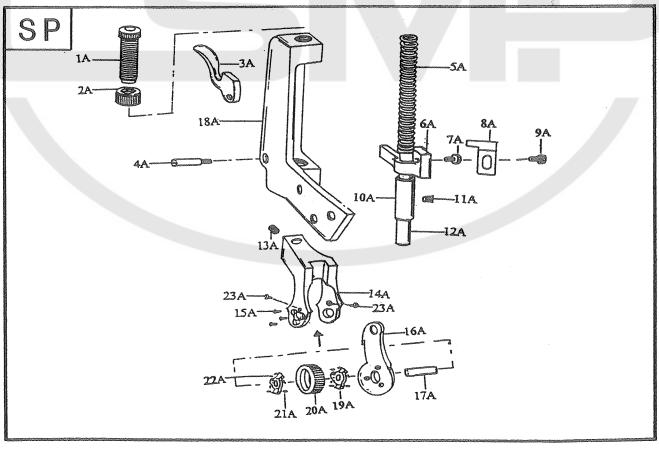


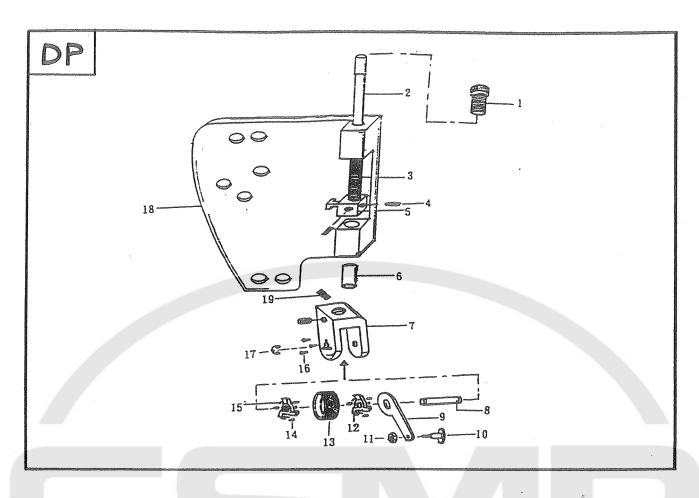
REF .NO.	NAME OF PARTS
C10-1	NEEDLE CLAMP ASSEMBLY
C10-2	NEEDLE PLATE
C10-3	SPRING M
C10 - 4	SPRING F
C10 - 5	SPRING BL
C10 - 6	PRESSER FOOT ASSEMBLY
C10 - 7	SUB FEED DOG
C10 - 8	NUT 3.18
C10 - 9	FEED DOG
C10 - 10	SPRING BS
C10 - 11	NEEDLE GUARD
C10 - 14	LAPPER ASSEMBLY
C10 - 15	NEEDLE GUARD BRACKET
C10 - 16	LOOPER (SHORT)
C10 - 17	LOOPER (MIDDLE)
C10 - 18	LOOPER (LONG)
C10-19	LOOPER HOLDER (SHORT)
C10 - 20	LOOPER HOLDER (MIDDLE)
C10 - 21	LOOPER HOLDER (LONG)
C10 - X31 - 1	SCREW 357*10
C10 - X77	SCREW 4.37
C10 - X79	SCREW 4.76
C10 - X82	SCREW 3.57
C10- X84	STUD SCREW
C10 - X85	SCREW 2.38*3.5
C10 - X86	SCREW 2.38
C10 - X87	SCREW 318*5
C10 - X88	SCREW 3.18
C10 - X89	SCREW 2.38
C10 - X90	SCREW 3.57*8
C10 - X91	SCREW 1.98

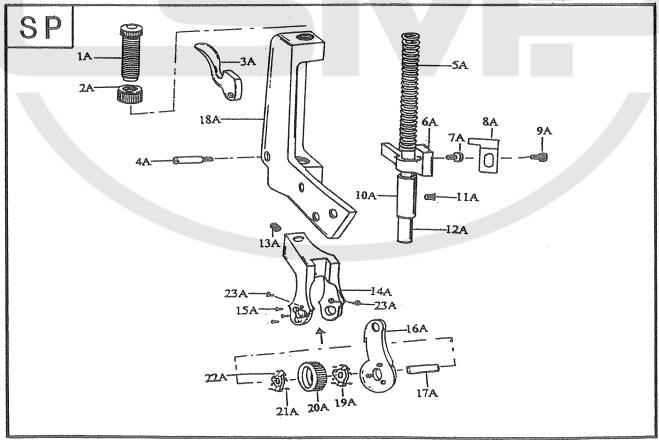


REF .NO.	NAME OF PARTS
C10 - X92	SCREW 3.57
C10 - X93	SCREW 3.18
C10 - Y05	NUT 3.57
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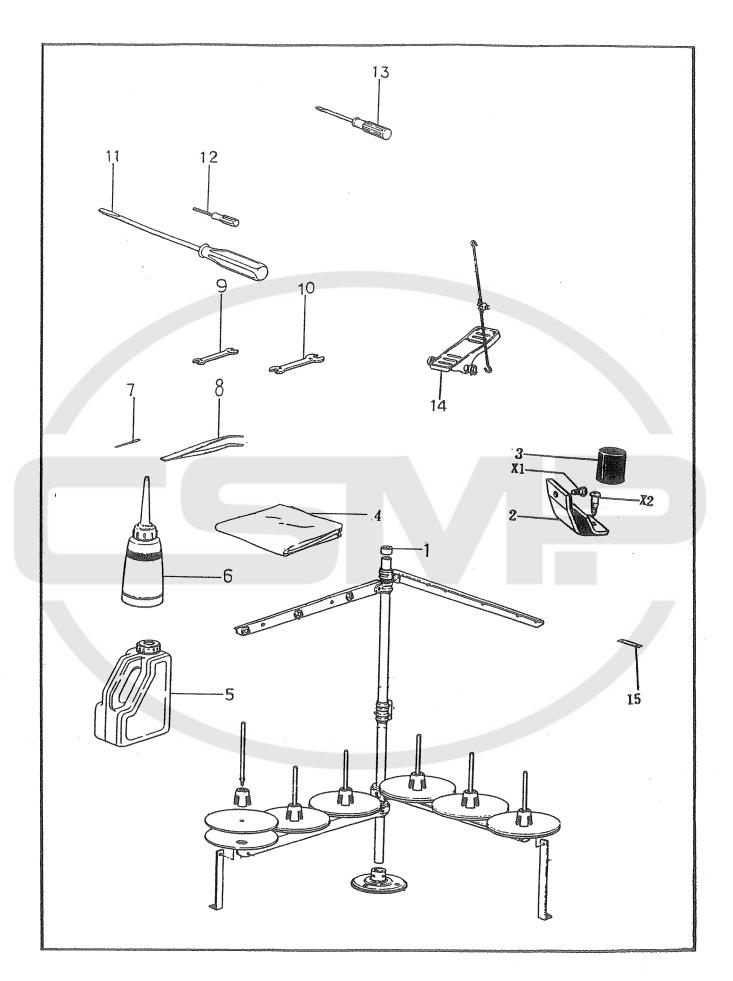






REF . NO.	NAME OF PARTS
C11-1	PRESSURE ADJUSTING SCREW
C11-2	UPPER WHEEL PRESSER BAR
C11-3	SPRING
C11-4	FIXING DEVICE SCREW
C11-5	WHEEL DIRECTION FIXING DEVICE
C11-6	PRESSER ROD BUSHING
C11 - 7	UPPER WHEEL SEAT
C11 - 8	UPPER WHEEL CONNECTON
C11-9	ONE WAY PULL HOLDER
C11 - 10	SCREW
C11 - 11	NUT
C11-12	ONE WAY TRIANGULAR WHEEL
C11-13	UPPER WHEEL
C11 - 14	ONE WAY STILL BALL
C11-15	ONE WAY STILL SPRING
C11-16	TRIANGULAR AXLE FIXING SCREW
C11 - 17	CHOCK RING
C11-18	FACE PLATE (UPPER)
C11 - 19	SCREW
C11-1A	PRESSURE ADJUSTING SCREW
C11 - 2A	NUT
C11-3A	PRESSER FOOT LIFTER
C11-4A	STUD SCREW
$\begin{array}{ c c c c c }\hline C11-5A\\ \hline \end{array}$	SPRING
$\begin{array}{ c c c c c c c c c c c c c c c c c c c$	PRESSER BAR GUIDE ASSEMBLY
$\begin{array}{ c c c c c c c c c c c c c c c c c c c$	SCREW
C11 - 8 A	ROLLER PRESSER BAR LIFTER
C11-9A	SCREW
$\begin{array}{c c} C11-10A \end{array}$	PRESSER ROD BUSHING
$\begin{array}{ c c c c c c c c c c c c c c c c c c c$	SCREW
C11 - 12A	UPPER WHEEL PRESSER BAR

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REF . NO.	NAME OF PARTS
C11 - 13A	SCREW
C11-14A	PULLER SUPPORTER ASSEMBLY
C11-15A	SCREW
C11 - 16A	ONE WAY PULL HOLDER
C11 - 17A	UPPER WHEEL CONNECTON
C11 - 18A	FACE PLATE
C11 - 19A	ONE WAY TRIANGULAR WHEEL
C11 - 20A	UPPER WHEEL
C11 - 21A	ONE WAY STILL BALL
C11 - 22A	ONE WAY STILL SPRING
C11 - 23A	SCREW
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REF .NO.	NAME OF PARTS
$\frac{1121 \cdot 101}{1121}$	THREAD STAND
$\frac{\text{C12}}{\text{C12}} = 2$	CUSHION ASSEMBLY
$\begin{array}{ c c c c c c c c c c c c c c c c c c c$	BASE CUSHION
$\begin{array}{ c c c c c c c c c c c c c c c c c c c$	HEAD COVER
$\begin{array}{ c c c c c c c c c c c c c c c c c c c$	OIL TANK
	OILER ASSEMBLY
$\frac{\text{C12} - 6}{\text{C12}}$	NEEDLE
C12 - 7	TWEEZERS
C12 - 8	
$\frac{\text{C12} - 9}{\text{C12}}$	SPANNER
C12 - 10	SPANNER ORDINARY
$\frac{\text{C12} - 11}{\text{C12}}$	SCREW DRIVER
$\frac{\text{C12} - \text{12}}{\text{C10}}$	SCREW DRIVER
$\frac{\text{C12} - 13}{\text{C12}}$	SCREW DRIVER
C12 - 14	THREADLE (MUDEAD MOLIVIER)
$\frac{\text{C12} - 15}{\text{C12}}$	SPACER (THREAD TRIMMER)
$\begin{array}{ c c c c c c c c c c c c c c c c c c c$	SCREW 6.35
$\begin{array}{c c} C12 - X2 \\ \hline \end{array}$	SCREW 6.2*26
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	SCREW 11.11
C12 - X23	SCREW 6.35
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