

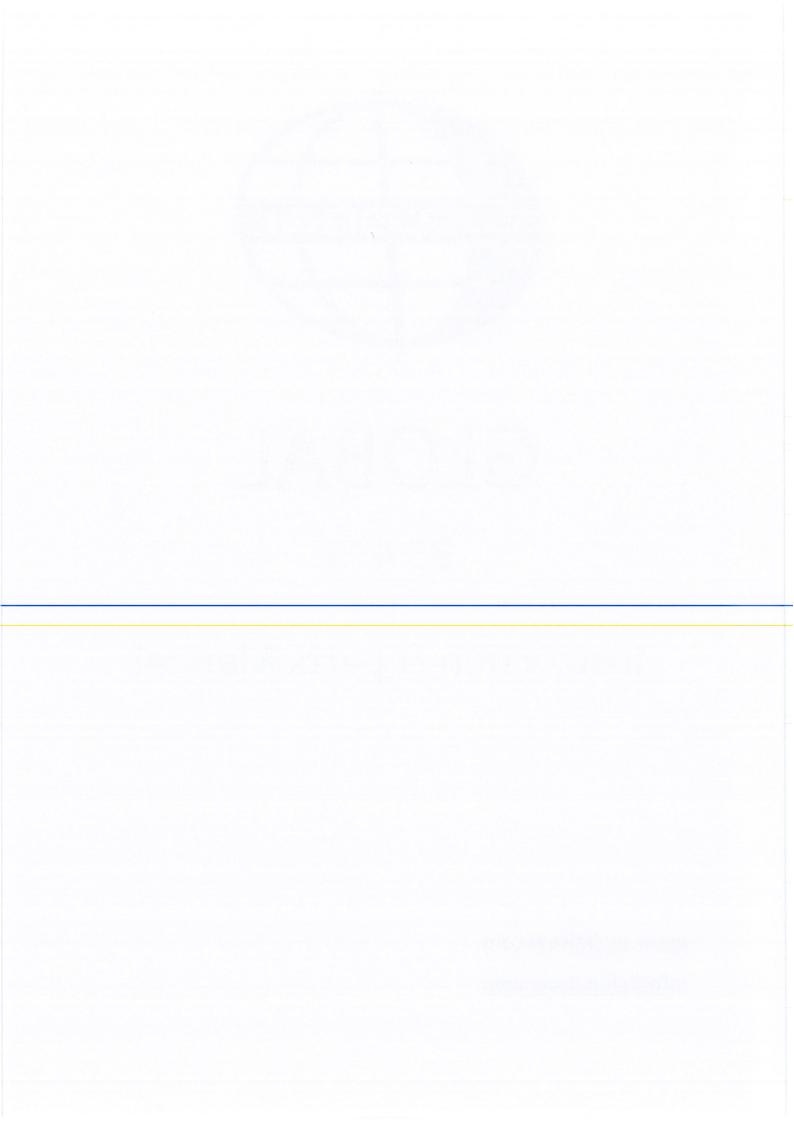
GLOBAL

BS 473

Instruction & parts Manual

www.globalsew.com

info@globalsew.com



SINGLE THREAD CHAINSTITCH BUTTON ATTACHING MACHINE

INSTRUCTION MANUAL

Before operating the machine, please read this Instruction Manual Carefully in order to operate it in the correct and efficient manners.

Thanks for your selection, wish you like it forever.

CAUTIONS BEFORE OPERATION

1. The machine has been determined in factory, but in the view of safety operating the machie, please remove the Side Cover. turn the pulley with hands. After a trial, connect the power.

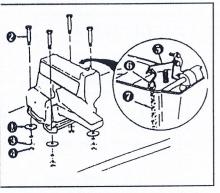
- 2. The sewing speed should be 1200–1300s.p.m within the first month.
- 3. The pulley should rotate backwards as observed from the operator. Take care not to rotate the machine in the opposite direction.

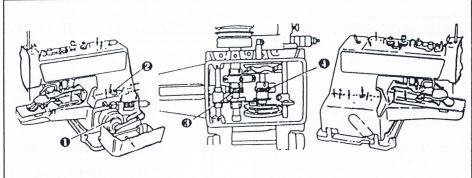
CAUTIONS IN OPERATION

- 1. Never place your hands under the needle during operation.
- 2. Never put your hands into the side cover during operation.
- 3. When putdown the maching head or removing tghe pulley. please disconnect power.
- 4. Never bring your fingers or hair close to, or place anything on the handwheel, V-belt, bobbin winder wheel or motor during operation. It may lead to serious personal injuries.
- 5.If your machine is provided with a belt cover, finger giard amd eye guard, never operate your machine with any of them removed.

1.SETTING UP THE MACHINE HEAD

2.LUBRICATION

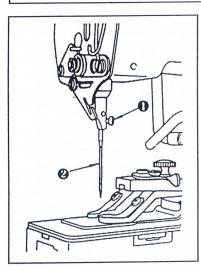




Putting the cushion ① on the table, place the machine head on the cushion ①, tighten it with screw ②, washer ③ and nut ④, then install the S-shaped book ⑥ and chain ⑦ on the stop-motion trip lever ⑤.

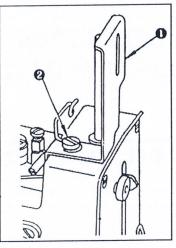
- 1. Apply the lubricating oil to the arrowed points.
- 2. Remove the Right Side Cover, screw out the screw ① of Needle Driving pulley, then apply grease.
- 3. Loosen the mounting screw ② push the machine head down, apply grease to the bevel gear ③ and shaft Driven Gear ④.
- 4. Check to see the oil felt in the sub-base, if the oil volume is deficiency, apply to it.

3.HOW TO INSTALL THE NEEDLE



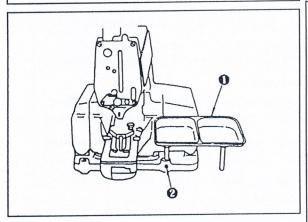
- *Turn off the motor power. Use a TQ \times 7#20 needle.
- Loosening needle setscrew
 hold needle ② with its long groove part facing toward the operator.
- Insert the needle fully into the needle clamping hole.
- 3. Securely tighten the needle setscrew ①.

4.HOW TO INSTALL THE NEEDLE BAR GUARD



- 1.Loosen setscrew ②
 2.Install the needle
 bar guard ① unde
 the thread guide
 NO. 2.
- 3.Retighten the setscrew 2.

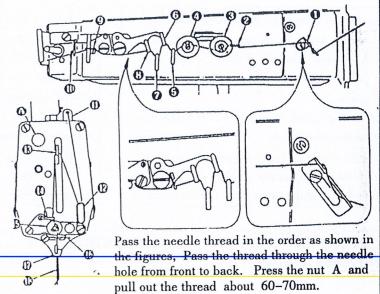
5.HOW TO INSTALL THE BUTTON TRAY



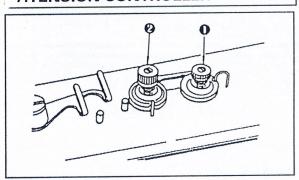
Insert the button tray into the hole at the front right side of the machine sub-base, tighten the setscrew ②.

If it's unconvenient, you can also put it at left side.

6.THREADING THE NEEDLE-THREAD



7.TENSION CONTROLLER

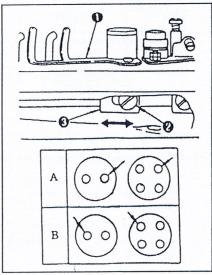


Tension controller NO.1 nut② is used for adujsting the strength of sewn button, with low tension, so it's convenient in use.

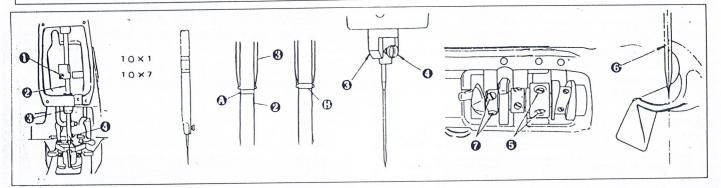
Tension controller NO.2 nut ② is used for adjusting tensity of stitches. The tension is stronger than NO.1.

Change it according to different thread, cloth, button etc. The tension increases when the each nut is turned clockwise, and decreases when turned counterclockwise.

8.ADJUSTION OF THREAD PULL-OFF LEVER



- Pass the screwdriver through the hole of left side cover, loosen setscrew ②, move nipper bar block ③ to left or right, so the adjusting of thread pull-off lever is all right
- As sewing finished, if the remaing thread comes out of the A arrowed holes; move the nipper bar block 3 to left; if the remaining thread comes out of the B arrowed holes, move the nipper bar block 3 to right.



*Set the meedle to looper relation in the following way:

1. In the state of the pedal was fully treaded, turn the pulley in the direction of rotation, bring down the needle bar to

the lowest point. Loosen needle bar setscrew ①.

2.(Setting the needle bar): When using needle $\mathbf{TQ} \times 1$, select the two upper engrave lines. When using needle $\mathbf{TQ} \times 7$, select the two lower engrave lines. Making their upper one aligh with the bottom end of needle bar bushing lower 3, then retighten the setscrew ①, turn the setscrew ④ into the concave groove of the needle bar bushing lower ③.

3.(Setting the looper): Loosen the setscrew ⑤, turn the pulley, Making the lower one B of a group of needle bar

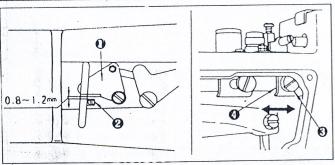
engrave lines aligh with the bottom end of needle bar bushing lower 3.

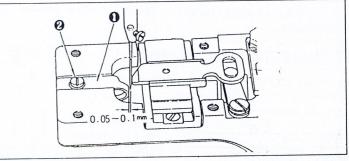
4. Aligh blade point 6 of the looper with the center of needle, then tighten the setscrew 5.

5. Loosen the setscrew ①, make adjustment so that a clearance of approx. 0.05 ~ 0.1mm is provided between the needle and the blade point of the looper, Then retighten the setscrew ①.

10.ADJUSTING THE THREAD NIPPER

11.ADJUSTMENT OF THE NEEDLE GUARD





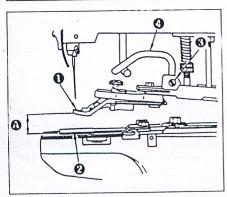
By this way: Loosen setscrew ③, move the nipper bar becomes approx. 0.05 ~ 0.1mm. block 4 to left or right.

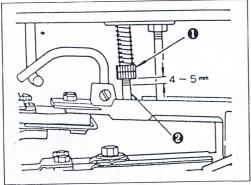
During running, made adjustment so that a clearance Loosen setscrew@, when the needle bar at the lowest point, then between thread nipper (and nipper block 2 becomes moving the needle guard 1 to left or right, make adjustment so approx. 0.8-1.2mm to prevent the nipper touch thread. that the clearance between the needle and the needle guard

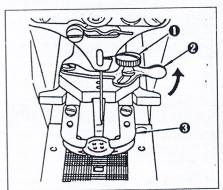
12.HEIGHT OF BUTTON CLAMP LEVER JAW COMPONENTS

13.THE PRESSURE OF THE BUTTON CLAMP LEVER JAW COMPONENTS







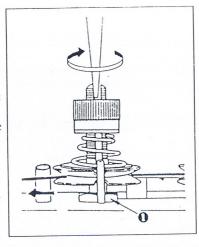


When stop running, the distance A between the button clamp lever jaw components (1) and the feed plate (2) should be 9mm. Adjust it by loosen setscrew 3, then moving button clamp lifting rod 4 up and down.

Turning the nut ①, make adjustment so that a clearance of approx. 4-5mm is provided between the nut and the screw bottom of button clamp pressure adjusting rod 2. Now the pressure is standard. As stop running, loosen the setscrew ①, turning snap fastener clamp stop lever to make the button clamp lever jaw open or close, so can make the button at right position where the button can be put and removed easily. Then tighten the setscrew①.

15.TIMING FOR THREAD TENSION RELEASE

Pulling the thread in the arrow direction, rotate the driving pulley, now the tension disc No. 2 was released, pass the thread through it. The height gauge from the top of needle bar bushing upper to the top of needle bar is about 54-56mm.



Trouble and remedy as follow:

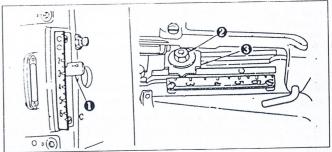
Houbic and remedy as rono ".	
Trouble	Height of needle bar(Remedy)
1. Poor tensity of cloth stitch	Upper the needle bar.
2. Thread has been cut before stop motion.	Upper the needle bar.
3. Needle thread is often broken	Lower the needle bar.

Adjustment:

Loosen nut ①, insert a thin screwdriver into the slit of tension post No. 2 to turn it. The height of needle bar lower when the tension post is turned clockwise, and upper when turned counterclockwise.

16.ADJUSTING THE CROSSWISE STITCH WIDTH AND THE LONGITUDE STITCH WIDTH FOR 2-HOLE OR 4-HOLE BUTTON

At first, please measure the hole distance. For the 4-hole button, the crosswise stitch width is the same as the longitude width.

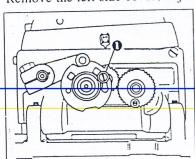


*Adjusting the longitude stitch width Press down the handle & indicator spring ①. For 2-hole button, make it at the position "0". For 4-hole button, set it to the value as same as measuring value. *Adjusting the crosswise stitch width

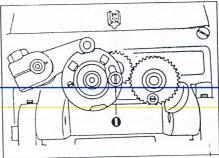
Loosen nut ②, set crosswise feed indicator ③ to the value as same as measuring value, Then retighten nut ② (Notice): Check to see the needle should be coming down through the center of the hole before running.

17. CHANGING THE NUMBER OF STITCHES

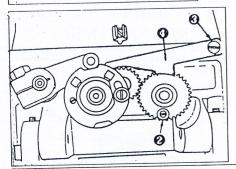
Remove the left side cover, adjusting stop motion cam knob ① and stitch selecting latch ④ and setscrew③.



*Adjustion of 8 stitches (6 stitches)
Pulling the stop motion cam knob ①.
make it close to yourself and at the position as figure shown.



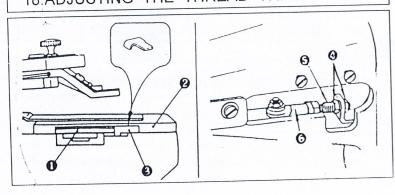
*Adjustion of 16 stitches(12stitches). In the case of 8 stitches, turn the stop motion cam knob(1) at the position as figure shown.



*Adjustion of 32 stitches (24stiches). In the case of 16 stitches, when the roll ② turned at the below position as shown, make stitch selecting latch ④ at the position as figure

shown by setscrew.

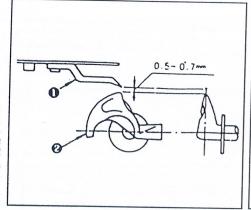
18.ADJUSTING THE THREAD TRIMMER

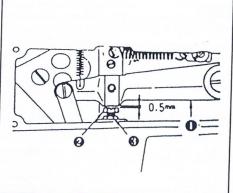


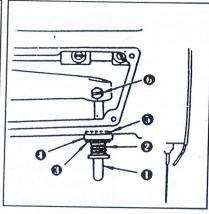
*Adjusting the moving knife When stop running and the button clamp asm.is fully lifted, make adjustment so that a clearance of approx. 13mm is provided between the connecting link, Front ① and the groove end of the throat plate ②.

Adjusting the clearance of 13mm:

Use the gauge ③ supplied with the machine to check. Tilting the machine head, remove the cover, loosen the nut ④ (two nuts), screw in or out the connecting screw ⑤. when retighten the nut ④, pay attention to make the feed adjusting joint ⑥ at the horizontal position.







*Height of moving knife poke hook The clearance between the moving knife ① and the looper ② is approx. 0.5-0.7 mm. If it isn't, make adjustment by bending the moving knife poke hook 1.

*The clearance between the button cl- *How to install the button clamp amp lifting lever and the adjusting bolt lifting rod. Make adjustment so that a clearance of Mount the follow parts on the but-0.5mm is provided between the button clamp lifting lever 1 and the adjusting safety magner 2, washer 3, ushibolt 2, then tighten the nut 3.

ton clamp lifting rod 1 in turn on 4, and washer 5, when the machine stop runing ,the washer should in touch with the jaw of machine body, with no gap there, then tighten the screw 6.

19.SPECIFICATIONS

Sewing speed	Max.1,500s.p.m	
Stitches number	8,16,32(6,12,23 are also can be sewn by changing the cam)	
Feed coverage	Crosswise 2.5–6.5mm Longitude 0–6.5mm	
Button size	Ф 10~ Ф 28mm	
Needle	TQ × 7#18-#20(or TQ × 1#14-#16)	
Lubricating oil	Sewing machinery oil	

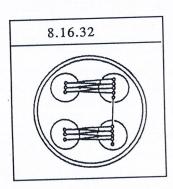
20.MOTOR PULLEY AND BELT

- (1) Motors of single-phase 250W, YC7124R or three-phase 250W, YS7114R are used.
- (2) Round belt 7 × 650mm are used.
- The effective diameter of motor pulley is equal with the diameter minus 1mm.
- The motor pulley should rotate counterclockwise as observed from the belt. Take care not to rotate the machine i the opposite direction.

21.TROUBLE, CAUSE AND REMEDY

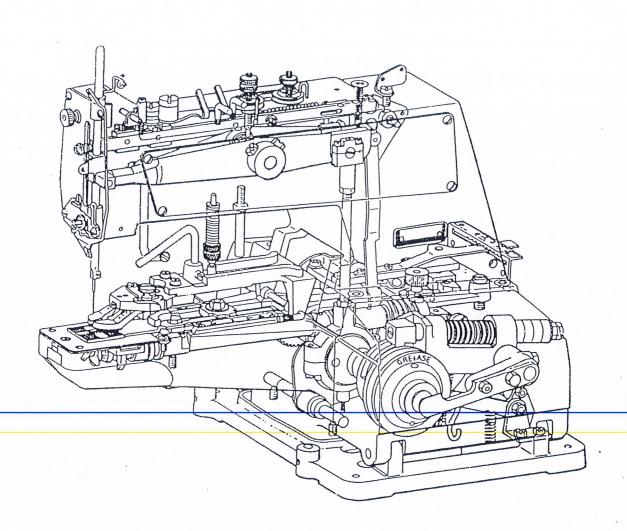
T ruble	Cause	Remedy
1. Needle thread is broke	 Yoke slide doesn't work well. Wrong timing for the tension release of tension disc No.2. Thread nipper clamps thread. The needle isn't coming down through the center of button. The needle is too thick. 	Making yoke slide working in coordination with timing tension close. Set the timing for the tension release of tension disc No.2 earlier. Adjust nipper bar block. Adjust jaw lever holder. Replace by a thin needle.
	 Yoke slide doesn't work well. The No.2. tension controller doesn't close immediately. Tension of the No.2 tension controller is weak. The needle isn't coming down through the center of hole. The pressure of button clamp lever jaw 	Making yoke slide working in coordination with timing tension close. Delay the timing for the tension release of tension disc No.2. Adjust tension disc No.2. Adjust jaw lever holder. Adjust the pressure.
3. The thread of first stitch is thrust out	isn't enough. The thread pull-off lever isn't adjusted well.	Adjust the thread pull-off lever.
	 The No. 2 tension disc doesn't close immediately. The needle touch with the hole wall. Button clamp lever jaw components doesn't goes up enough. Thread nipper doesn't close well. The pressure of button clamp lever jaw is too large. 	Delay the timing release, improve the tensity of stitches. Adjust to make the needle coming down at correct position. Adjust to make button clamp lever jaw components goes up 12mm from the feed plate Adjust nipper bar block. Adjust the tension nut to decrease the pressure.
5. Thread can't	① Moving knife poke hook doesn't set thread	Adjust the position of moving knife.
De cui.	 2 Needle isn't comming down through the center of hole. 3 The last stitch is skipped. 4 Height of moving knife poke hook isn't well. 	Adjust the jaw lever holder. Adjust the needle-to-looper relation. Adjust the height of moving knife poke hook.
6. Two threads are cut simultaneously.	 The position of moving knife isn't right. The height of moving knife poke hook isn't right. 	Adjust the height of moving knife when stop-motion. Adjust the height of moving knife poke hook.
7. Remaining threa on the bottom of cloth is too long.	11 1	Adjust the position of moving knife. Make adjustment so that the stroke is 9mm.

22.TYPE OF STITCHES



High-speed, Chainstitch, Button Sewing Machine (with an Automatic Thread Trimmer)

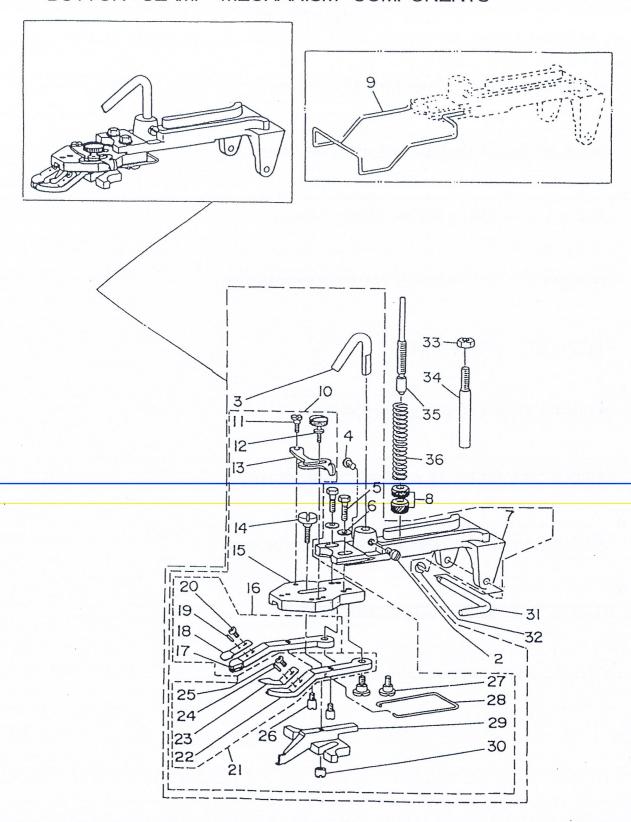
PARTS LIST



CONTENTS

1. BUTTON CLAMP MECHANISM COMPONENTS
2. ARM & MISCELLANEOUS COVERS COMPONENTS
3. LOOPER SHAFT MECHANISM COMPONENTS
4. NIPPER & THREAD TENSION PARTS COMPONENTS
5. FEED PLATE COMPONENTS
BUTTON CLAMP LIFTER COMPONENTS
7
NEEDLE BAR DRIVING MECHANISM COMPONENTS
9. STOP MOTION MECHANISM COMPONENTS
10. STITCH SELECTING PARTS COMPONENTS

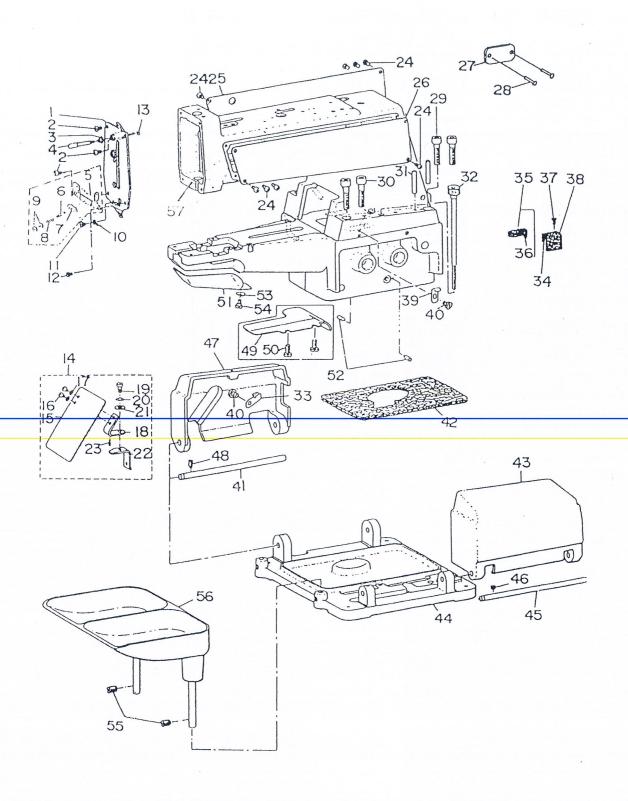
1. BUTTON CLAMP MECHANISM COMPONENTS



		Description	
1 2 3 4 5	FJ65 E90116 FJ65 FJ5783	FLAT BUTTON CLAMP ASM. SCREW 15/64-28 L=8 BUTTON CLAMP LIFTING ROD SCREW 15/64-28 L=8 SCREW 3/16-32 L=13.5	1 1 1 1 2
6 7 8 9 10	GB97. 1 E90117 E80119 E80115	WASHER 5 × 10.5 × 1 BUTTON CLAMP HOLDER BUTTON CLAMP NUT FINGER GUARD JAW LEVER HOLDER ASM.	2 1 2 1 1
11 12 13 14 15	E80113 E80110 E80111 E80112 E80114	HINGE SCREW D=5.50 H=1.8 CLAMP SCREW A SNAP FASTENER CLAMP STOP LEVER HINGE SCREW D=5.5 H=3 JAW LEVER HOLDER	1 1 1 1 1
16 17 18 19 20	E80101 E80103 GB119 FJ65	BUTTON CLAMP JAM LEVER ASM BUTTON CLAMP JAW LEVER (LEFT) BUTTON HOLDING SPRING, LEFT BUTTON CLAMP LOCATING PIN SCREW 9/64-40 L=3.5	1 1 1 1 1
21 22 23 24 25	E80102 E80104 GB119 FJ65	BUTTON CLAMP JAW LEVER RIGHT BUTTON CLAMP JAW LEVER RIGHT BUTTON HOLDING SPRING, RIGHT BUTTON CLAMP LOCATING PIN SCREW 9/64-40 L=3.5	1 1 1 1
26 27 28 29 30	E80107 E80109 E80108 E80106 E80105	BUTTON CLAMP STOP PIN HIAGE SCREW D=6.35 H=3.9 BUTTON CLAMP SPRING BUTTON CLAMP SLIDE NUT	2 2 1 1 1
31 32 33 34 35	E80118 GB896 FJ6170 E80120 E80121	HINGE PIN SNAP RING NUT 1/4-24 BUTTON CLAMP STOPPER PIN BUTTON CLAMP PRESSURE ADJUSTING BAR	1 1 1 1 1 1 1
36	E80122	PRESSURE ADJUSTING SPRING	1

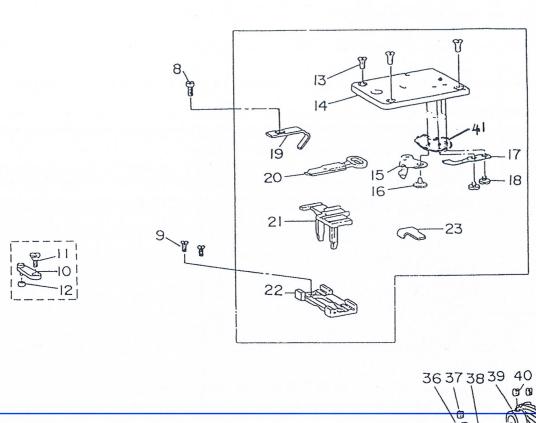
:

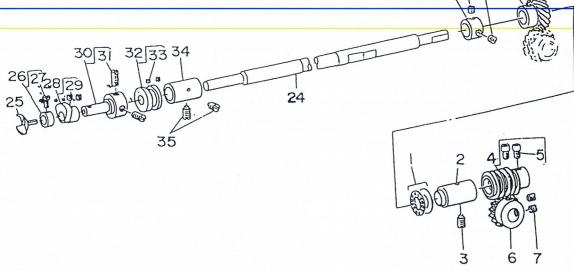
2. ARM & MISCELLANEOUS COVERS COMPONENTS



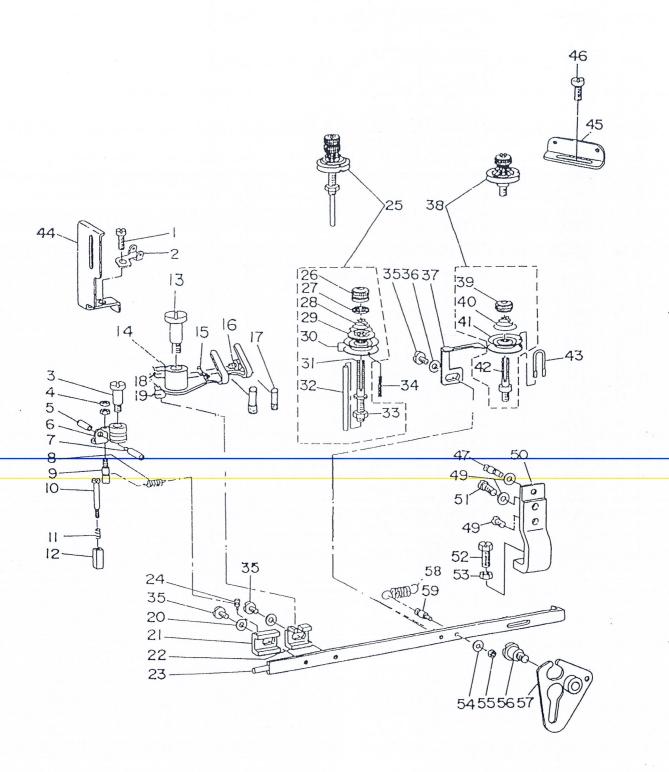
			,
-		Description	>
1 2 3 4 5	E80217 FJ65 E80201 E90211 E902201	FRONT COVER ASM. SCREW 11/64-40 L=8 TENSION SPRING NIPPER RELEASING PLUNGER TENSION ADJUSTING BASE NO. 3	- 1 3 1 1
6 7 8 9	E902202 E902203 E902204 E902205 E80222	THREAD TENSION STUD THREAD PRESSER PLATE TENSION SPRING THREAD TENSION NUT THREAD GUIDE NO. 4	1 1 1 2 1
11 12 13 14 15	FJ947 GB896-86	SCREW 11/64-40 L=3.2 SCREW 11/64-40 L=8 SNAP RING SAFETY PLATE ASM. SAFETY PLATE	1 1 1 1 1 1
16 17 18 19 20	FJ65 GB95 E80204 E80203 E80205	SCREW 11/64-40 L=7 WASHER 4.5 × 10.0 × 0.8 SAFETY PLATE INSTALLING PLATE HINGE SCREW D=6 H=4 DISC SPRING	2 2 1 1 1
21 22 23 24 25	E80240 E80207 GB879 FJ65 E80218	WASHER 6.5 × 13 × 0.8 SAFETY PLATE MOUNTING BASE SPRING PIN 2 × 6 SCREW 11/64-40 L=8 SIDE COVER, LEFT	1 1 1 8 1
26 27 28 29 30	E80212 E90235 E80236 GB70 GB70	SIDE COVER, RIGHT MARK PLATE RIVET 2 × 5 SCREW M8 L=30 SCREW M8 L=35	1 1 4 2 2
31 32 33 34 35	E80215 E80214 E90224 E80228	GUIDE PIN SET SCREW ASM. SIDE COVER SPRING, LEFT OIL WICK OIL FELT ASM., SMALL	2 1 1 1 1
36 37 38	FJ67 E80229	OLL WICK SCREW 11/64-40 L=7.8	1
.39	E90239 FJ67	SIDE COVER SPRING, RIGHT SCREW 3/16-28 L=6	1 1 2
41 42 43 44 45	E90238 E80233 E90234 E80230 E80232	SIDE COVER SHAFT, LEFT OIL DRIP FELT (A) 5MM SIDE COVER RIGHT MACHING SUB-BASE SIDE COVER HINGE SHAFT	1 1 1 1
46 47 48 49 50	FJ74 E90231 FJ75 E80213 FJ67	SCREW 15/64-28 L=4 COVER, LEFT SCREW 15/64-28 L=10. 5 BED OIL SHIELD SCREW 11/64-40 L=7. 8	1 1 1 1 2
51 52 53 54 55	E80208 E80227 E80209 E80210 FJ74	LOOPER COVER CAM INDICATING PIN SPRING WASHER 6.5 × 14.0 × 17 HINGE SCREW D=6 H=2.7 SCREW 15/64-28 L=7	1 2 1 1 2
56	E80225 E90216	BUTTON TRAY ASM. MACHING HEAD ASM	1 1

3. LOOPER SHAFT MECHANISM COMPONENTS



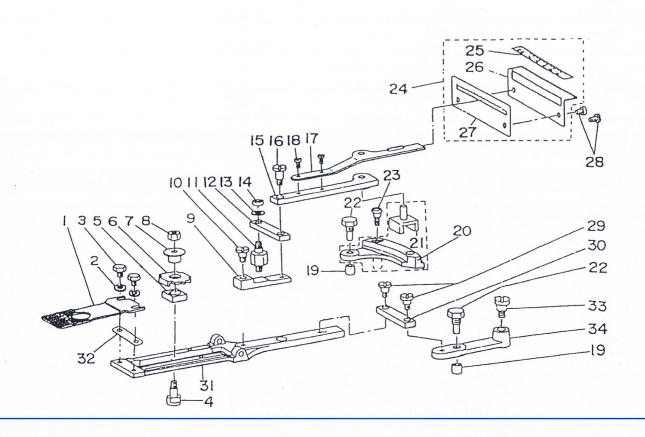


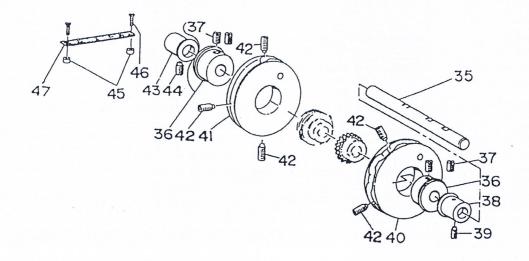
	Description	
E80322 E90323 FJ75 E80324 FJ70.1	THRUST BALL BEARING LOOPER SHAFT BUSHING, REAR SCREW 15/64-28 L=10.5 DRIVEN WORM ASM. SCREW 1/4-40 L=7.0	1 1 1 1 2
E80325 FJ80 FJ67 FJ68 E80302	CAM SHAFT DRIVEN GEAR ASM. SCREW 1/4-40 L=6.0 SCREW 11/64-40 L=7 SCREW 11/64-40 L=7 LOOP POSITIONING FINGER LEVER	1 2 1 2
E80301 E80304 FJ69 E90309 E80310	HINGE SCREW D=6.35 H=2.4 LOOP POSITIONING FINGER LEVER SCREW 11/64-40 L=8.5 THROAT PLATE MOVING KNIFE ASM.	1 1 3 1
E80311 E80312 FJ947 E80305 E80308	HINGE SCREW D=6 H=0.85 COUNTER KNIFE SCREW 1/8-44 L=3.0 NEEDLE GUARD YOKE SLIDE	1 1 2 1
E80307 E80306 E80326 E80320 E80313	POSITIONING FINGER YOKE SLIDE YOKE SLIDE INSERT GAUGE LOOPER SHAFT LOOPER	1 1 1 1
E80315 FJ67 E80316 FJ74 E80317	THRUST COLLAR ASM. SCREW 9/64-40 L=6.1 LGOP POSITIONING FINGER CAM ASM SCREW 11/64-40 L=3.5 LOOPER & CAM SLEEVE	1 1 1 2 1
FJ74 E80303 FJ74 E90318 FJ75	SCREW 15/64-28 L=4.0 LOOP POSITIONING FINGER ASM. SCREW 11/64-40 L=2.8 LOOPER SHAFT BUSHING, FRONT SCREW 15/64-28 L=10.5	2 1 2 1 2
E80319	THRUST COLLAR ASM, D=11, 11 W=10	1
FJ80 FJ74 E80321 FJ80	SCREW 1/4-40 L=5 SCREW 1/4-40 L=3. 0 LOOPER SHAFT DRIVEN GEAR ASM. SCREW 1/4-40 L=6. 0	1 1 1 2
E91102	BASE PLATE	
	E90323 FJ75 E80324 FJ70.1 E80325 FJ80 FJ67 FJ68 E80302 E80301 E80304 FJ69 E90309 E80310 E80311 E80312 FJ947 E80305 E80306 E80320 E80313 E80315 FJ67 E80316 FJ74 E80317 FJ74 E80317 FJ74 E80317 FJ74 E80319 FJ80 FJ74 E80321 FJ80	THRUST BALL BEARING



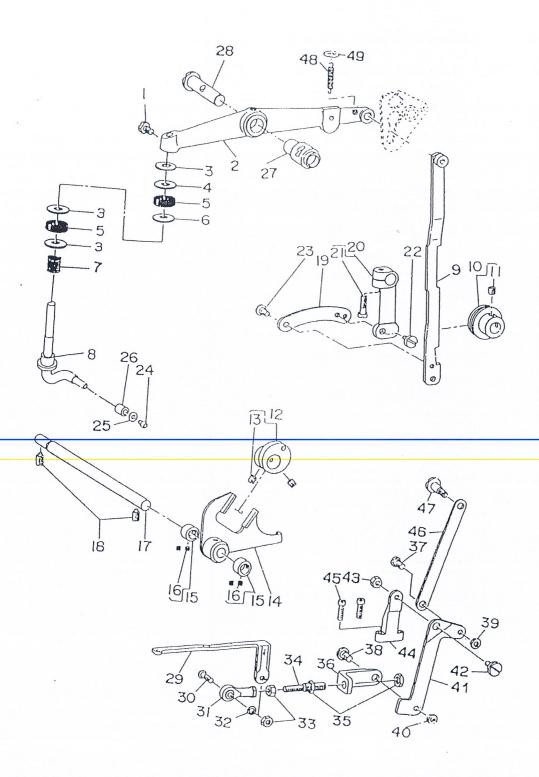
		Description	T
1	FJ67	SCREW 15/64-28 L=12 THREAD GUIDE HINGE SCREW D=7. 94 H=12. 7 NUT 1/8-44 NUT	1
2	E90401		1
3	E80405		1
4	FJ6170		2
5	E80403		1
6 7 8 9 10	E80404 E80402 E80436 E80429 E80430	THREAD NIPPER ASM. THREAD RELEASING SCREW STUD NIPPER BAR BLOCK SPRING NIPPER BAR BLOCK SPRING SCREW SCREW D=4 H=20	1 1 1 1 1 1
11	E 8 0 4 3 1	NIPPER BLOCK SPRING NIPPER BLOCK HINGE SCREW D=7.94 H=15.0 THREAD PULL-OFF LEVER ASM. THREA GUIDE	1
12	E 8 0 4 3 2		1
13	E 8 0 4 0 6		1
14	E 8 0 4 0 8		1
15	E 8 0 4 0 7		1
16	FJ67	SCREW 9/64-40 L=4.6 SHAPED GUIDE NUT 1/4-24 THREAD PULL-OFF LEVER WASHER 5 × 10.5 × 1	1
17	E90409		2
18	FJ6170		1
19	E80428		1
20	GB848		2
21 22 23 24 25	E80437 E80438 E80439 E804371	NIPPER BAR BLOCK NIPPER BAR BLOCK REAR NIPPER BAR NIPPER BAR BLOCK SPRING PIN TENSION POST ASM.	1 1 1 1 1
26	E80423	TENSION NUT ROTATING STOPPER THREAD TENSION SPRING TENSION DISC HOLDER TENSION DISC	1
27	SJ15-371		1
28	E80425		1
29	E80426		1
30	E80420		2
31	E80427	TENSION POST NO. 2 TENSION RELEASE PIN NUT 1/4-24 SPRING PIN SCREW 3/16-28 L=9.0	1
32	E80422		1
33	FJ6170		1
34	GB879		1
35	E80440		3
36 37 38 39 40	GB848 E80421 E80419 E80418	WASHER 5 × 10.5 × 1 THREAD TENSION RELEASING LEVER THREAD TENSION ASM. THREAD TENSION NUT TENSION SPRING NO. 1	1 1 1 1 1 1
41	E80420	TENSION DISC THREAD TENSION STAFF NO. 1 THREAD GUIDE NEEDLE BAR GUARD THREAD GUIDE NO. 1	2
42	E80417		1
43	E80416		1
44	E80433		1
45	E80411		1
46	FJ67	SCREW 15/64-28 L=12 ADJUSTING SCREW WASHER 4.8 × 8.4 × 0.8 SCREW 3/16-28 L=9.5 NIPPER BAR BEARING BLOCK	1
47	E80413		1
48	E80441		2
49	FJ65		1
50	E80415		1
51	FJ65	SCREW 3/16-28 L=15.5	1 1 1 1 1 1 1
52	FJ29.1	BOLT 15/64-28 L=14	
53	FJ6170	NUT 15/64-28	
54	GB848	WASHER 3.7 × 8 × 1	
55	FJ6170	NUT 1/8-44	
56	E80412	HINGE SCREW D=7.94 H=8.0	1 1 1 1
57	E80414	NIPPER BAR ACTUATING LEVER ASM	
58	E80410	THREAD TENSION SPRING	
59	E80434	NIPPER BAR SPRING SCREW	

FEED PLATE COMPONENTS

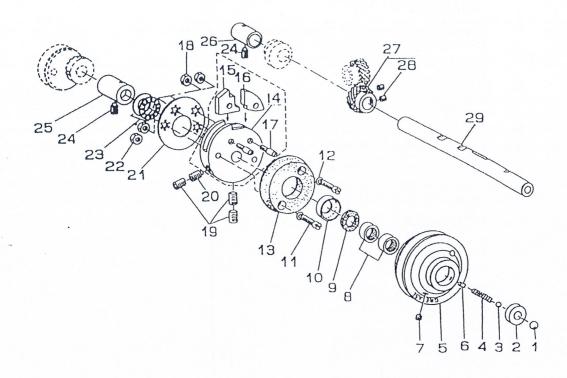




		Description	
1	E80501	FEED PLATE, SMALL BUTTON WASHER 5×10.5×1 SCREW 3/16-28 L=6 HINGE SCREW FOR CROSSWISE FEED INDICATOR PIN BEARING BLOCK	1
2	GB97.1		2
3	FJ5783		2
4	E80526		1
5	E80528		1
6 7 8 9 10	E80529 E80527 FJ6170 E80506 E80505	CROSSWISE FEED INDICATOR CROSSWISE FEED INDICATOR PIN NUT 1/4-24 SLIDE PLATE CONNECTING LINK A HINGE SCREW D=6.35 H=4.8	1 1 1 1
11	E80530	STUD INTERMEDI CONNECTING LINK WASHER 5×10.5×1 NUT 3/16–28 INDICATOR SPRING CONNECTING LINK	1
12	E80508		1
13	GB848		1
14	FJ6170		1
15	E80523G		1
16	E80507	HINGE SCREW D=6.35 H=9.6	1
17	E80522	HANDLE & INDICATOR SPRING	1
18	FJ67	SCREW 9/64–40 L=6	2
19	E80511	CAM ROLL	2
20	E80510	LENGTHWISE FEED LEVER	1
21 22 23 24 25	E80515 E80509 E90531 E80514	LENGTHWISE FEED LEVER SLIDE BLOCK CAMROLL SCREW STUD LENGTHWISE FEED STUD LENGTHWISE FEED SCALE ASM. LENGTHWISE FEED GRADUATE PLATE	1 2 1 1
26	E80520	PLATE BASE FEED REGULATOR LEVER STOPPER SCREW 3/16-28 L=6 HINGE SCREW D=6.35 H=4.8 INTERMEDI CONNECTING LINK	1
27	E80521		1
28	FJ67		2
29	E80505		2
30	E80508		1
31 32 33 34 35	E80502 E90532 E90513 E80512 E80517	FEED PLATE SPACER CROSSWISE FEED STUD CROSSWISE FEED LEVER CAM SHAFT	1 1 1
36	E80518	CAM BOSS SCREW 9/32-28 L=8.0 CAM SHAFT BUSHING,RIGHT SCREW 15/64-28 L=10.5 CROSSWISE FEED CAM	2
37	FJ74		4
38	E90524		1
39	FJ75		1
40	E80525		1
41	E80519	LENGTHWISE FEED CAM SCREW 9/32-28 L=13.5 CAM SHAFT BUSHING, LEFT SCREW 15/64-28 L=10.5 CROSSWISE FEED GRADUATED PLATE	1
42	FJ79		5
43	E90516		1
44	FJ75		1
45	E80504		2
46	FJ67	SCREW 3/32-56 L=10	2
47	E80503	CROSSWISE FEED GRADUATED PLATE	

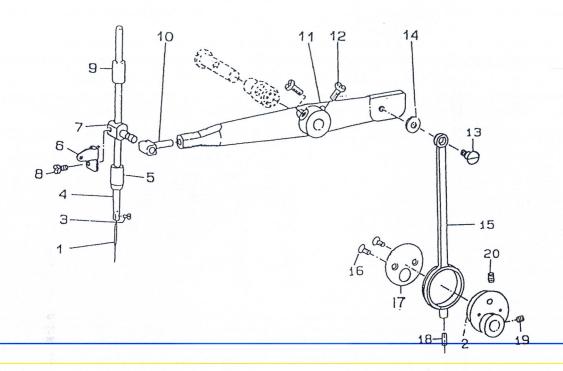


1		Description	T
1	FJ29.1	SCREW 15/64-28 L=11 BUTTON CLAMP LIFTING LEVER WASHER 7.5 × 19 × 1.5 WASHER 7 × 20 × (3.5; 4; 4.5) CUSHION	1
2	E8060		1
3	E80633		4
4	E80608		1
5	E80607		2
6 7 8 9 10	E80634 E80606 E90602 E80612 E80623	WASHER 8.5 × 22.0 × 1.8 SAFETY MAGNET BUTTON CLAMP LIFTING ROD ASM. BUTTON CLAMP LIFTING LINK SLIDING ROLLER ASM.	1 1 1 1 1 1
11	FJ80	SCREW 1/4-40 L=6.0 ECCENTRIC CAM ASM. SCREW 1/4-40 L=6.0 BUTTON CLAMP LIFTING LINK ASM. THRUST COLLAR ASM. D=9.5 W=8	1
12	E80616		1
13	FJ80		2
14	E80617		1
15	E80618		2
16	FJ74	SCREW 11/64-40 L=3.5 LEVER SHAFT SCREW 15/64-28 L=10.5 LIFTING LINK CONNECTING LINK LIFTING LINK LEVER ASM.	4
17	E80620		1
18	FJ75		2
19	E80622		1
20	E80619		1
21	FJ65	SCREW 3/16-28 L=15.5	1
22	E80621	HINGE SCREW D=6.35 H=4.7	1
23	E80624	HINGE SCREW D=6.35 H=2.1	1
24	GB65-85	SCREW M3 × 5	1
25	GB97.1-85	WASHER 3	1
26 27 28 29 30	E80601 E80605 E80604 E80631 E80630	BUTTON CLAMP LIFTING ROD ROLL BUSHING BUTTON CLAMP LIFTING LEVER SHAFT CONNECTING LINK, FRONT JOINT STUD	1 1 1 1
31	E80629	FEED ADJUSTING JOINT WASHER 5.1 × 7.5 × 0.5 NUT M5 CONNECTING SCREW NUT 9/32-28	1
32	E80635		1
33	GB6170		2
34	E80628		1
35	FJ6170		2
36 37 38 39 40	E80627 E80625 E80626 FJ6170	CONNECTING LINK, REAR HINGE SCREW D=6.35 H=3.2 HINGE SCREW D=7.94 H=4 NUT 3/16-32	1 1 1
41 42 43 44 45	E80615 E80613 FJ6170 E80614 FJ65	NUT 15/64-28 THREAD TRIMMING LEVER HINGE SCREW D=7. 94 H=3.1 NUT 11/64-40 THREAD TRIM LEVER BASE SCREW 11/64-40 L=14	1 1 1 1 1 2
46	E80611	THREAD TRIMMING LINK HINGE SCREW D=6.35 H=13.2 NIPPER BAR ACTUATING LEVER SPRING WASHER	1
47	E80610		1
48	E80609		1
49	SJ15-371		1



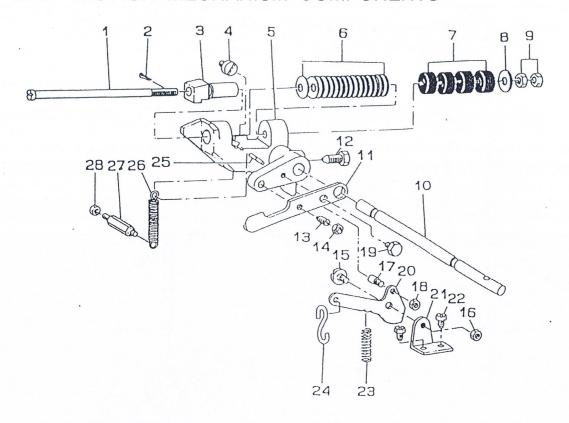
		Description	
1 2 3 4 5	GB308 E80701 GB308 E80702 E80703	BALL LARGE PULLEY INSERT BALL SMALL SPRING NEEDLE DRIVING PULLEY	1 1 1 1
. 6 7 8 9 10	E80711 FJ74 E80710 E80709 E80708	SCREW 11/64-40 L=6.5 SCREW 15/64-28 L=4 NECOLE BEARING GREASE RETAINING WICK RETAINING WASHER	1 1 2 1
11 12 13 14 15	E80716 E80721 E80704 E80712 E80714	SCREW 15/64-28 L=23.5 WASHER 6.2 × 9.5 × 1 NEEDLE DRIVING PULLEY CLUTCH DISC STOP MOTION DISC STOP MOTION DISC PAWL A	2 2 1 1
16 17 18 19 20	E80713 E80717 FJ6170 FJ80 E80715	STOP MOTTON DISC PAWL B SCREW NUT 15/64-28 SCREW 5/16-24 L=10.0 SCREW 5/16-24 L=17.0	1 2 2 3 1
21 22 23 24 25	E80705 FJ6170 E80707 FJ75 E90706	ECCENTRIC WASHER NUT 15/64-28 THRUST BALL BEARING SCREW 15/64-28 L=10.5 PULLEY SHAFT BUSHING, RIGHT	1 2 1 2
26 27 28 29	E90718 E80720 FJ80 E80719	PULLEY SHAFT BUSHING, LEFT DRIVING GEAR ASM. SCREW 1/4-40 L=6.0 NEEDLE DRIVING PULLEY SHAFT	1 1 2 1

8. NEEDLE BAR DRIVING MECHANISM COMPONENTS



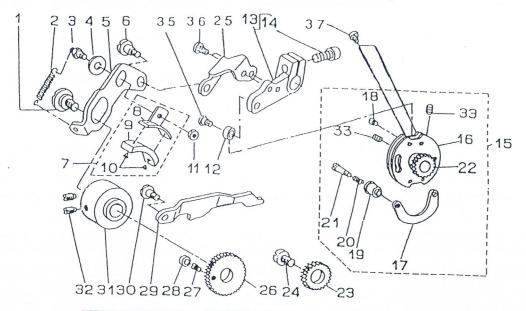
			Description	
1 2 3 4 5	E90807 FJ67 E80801 E80802	-	NEEDLE TQ×7"18~ "20,TQ×1 "14~ "16 ECCENTRIC CAM SCREW 1/8-44 L=4.5 NEEDLE BAR NEEDLE BAR BUSHING LOWER	1 1 1 1
6 7 8 9 10	E80809 E80808 FJ65 E80803 E80804		NEEDLE BAR BALANCE NEEDLE BAR CLAMP SCREW 9/64-40 L=10 NEEDLE BAR BUSHING,UPPER NEEDLE BAR BEARING,BLOCK	1 1 1 1
11 12 13 14 15	E90805 FJ29.1 E90812 E90810 E90806		NEEDLE BAR LEVER SCREW 15/64-28 L=15.5 NEEDLE BAR LEVER SCREW WASHER ECCENTRIC LINK	1 2 1 1
16 17 18 19 20	FJ68 E90811 E90813 FJ78 FJ80		SCREW 11/64-40 L=8.5 THRUST HOLDER OIL WICK SCREW 1/4-40 L=8.5 SCREW 1/4-40 L=6	2 1 1 1 1 1 1

STOP MOTION MECHANISM COMPONENTS



		Description	
1 2 3 4 5	E80904 GB91 E80901 E80905 E80902	STOP MOTION PLUNGER ROD SPLIT PIN 1.8 × 10 STOP MOTION PLUNGER SCREW 15/64-28 L=10 STOP MOTION PLUNGER LEVER	1 1 1 1
6 7 8 9 10	E80903 E80907 E80920 FJ6170 E90917	STOP MOTION DISC SPRING RUBBER CUSHION WASHER NUT 9/32-28 STOP MOTION LEVER SHAFT	30 4 1 2
11 12 13 14 15	E80909 E80908 E80912 FJ6170 E80915	STOP MOTION DISC PRESSURE LEVER SCREW SCREW NUT 15/64-28 HINGE SCREW D=6.80 H=2.7	1 1 1 1 1
16 17 18 19 20	FJ6170 E80919 FJ6170 FJ29.1 E80916	NUT 15/64-28 STOP SCREW NUT 15/64-28 SCREW 15/64-28 L=10.5 STOP MOTION TRIP LEVER	1 1 1 1 1
21 22 23 24 25	E80914 FJ29. 1 E80913 E80911 E80906	STOP MOTION TRIP LEVER BRACKET SCREW 15/64-28 L=8 SPRING S SHAPED HOOK STOP MOTION LEVER SPRING PIN	1 2 1 1 · 1·
26 27 28	E80910 E80918 FJ6170	STOP MOTION LEVER SPRING SCREW STUD NUT 15/64-28	1 1 1

STITCH SELECTING PARTS COMPONENTS



		Description	
1	E81007	HINGE SCREW D=12.70 H=3.2 SPRING FOR FRICTION PLATE FRICTION PLATE ROTATING STUD WASHER SPEED SLOWING LEVER	1
2	E81006		1
3	E91017		1
4	E91016		1
5	E91004		1
6	E91003	HINGE SCREW D=8 H=3. 3 FRICTION PLATE HOLDER ASM, FRICTION PLATE HOLDER SPEED SLOWING FRICTION PLATE POSITIONING PIN	1
7	E81018		1
8	E810181		1
9	E810182		1
10	GB867		2
11 12 13 14 15	FJ6170 E91011 E91001 GB70-85 E91002	NUT 11/64-40 STOP MOTION TRIPPING LEVER CAM STOP MOTION TRIPPING LEVER ASM SCREW M6 × 16 STOP MOTION CAM ASM.	1 1 1 1
16 17 18 19 20	E910021 E810022 E810023 E810025 E810026	STOP MOTION CAM ASM. STOP MOTION CAM SHOE SCREW FOR STOP MOTION CAM SHOE STOP MOTION CAM KNOB SPRING	1 1 1 1
21	E810027	HINGE SCREW D=4.80 H=14.5	1
22	E810024	STITCH SELECTING SPUR GEAR, SMALL	1
23	E81005	STITCH SELECTING SPUR GEAR, MI	1
24	E81012	SCREW STUD	1
25	E91010	FITTING PLATE	1
26	E81015	GEAR LARGE SCREW ROLL STITCH SELECTING LATCH HINGE SCREW D=6 H=3.7	1
27	E81014		1
28	E81013		1
29	E91009		1
30	E91019		1
31 32 33 35 36	E81008 FJ75 FJ80 E91020 FJ67	SPEED SLOWING FRICTION WHEF! SCREW 15/64-28 L=10.5 SCREW 15/64-28 L=9 HINGE SCREW D=7.94 H=4.2 SCREW 11/64-40 L=7.8	1 2 2 1 2

