

# GM747series HIGH-SPEED OVERLOCK SEWING MACHING

# Instruction Manual Parts Catalog

## SHANGHAI HUIGONG NO.3 SEWING MACHINE FACTORY

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# Specifications

Models	Thread	Sewing speed (r/min)	Stitch length (mm)	Presser foot lift(mm)	Decibel (dB)	Torque (N·m)	Overedging width(mm)
GM747-3	3	5500~6000	0~5	6	≦84	≦0.4	1.5~6
GM747-4	4	5500~6000	0~5	6	≦84	≦0.4	1.5~6
GM747-5	5	5500~6000	0~5	6	≦84	≦0.4	1.5~6

## To the operator

Thank you very much for using our High speed, Straight Needle, Overlock Safety Stitch Machine. Before operating this machine, please study this book thoroughly, understand the functions and features of the machine. Then it will help you to increase your sewing efficiency and quality.

ATTENTION: Because this is an high speed machine. Do not run it before filling oil and making sure the correct direction of motor.

#### How to install the machine

- 1. Install the machine according to the table cut-out diagram, Cushion Rubber and Rest Board as enclosed. In case of semi-submerged, the distance between Needle plate top surface and Table Top is about 100mm, and for fully-submerged is about 5mm.
  - 2. Setting the pedal of clutch motor to the left side and the pedal of presser foot lift at right ride.
  - 3. Install the cloth waste chute. thread stand as parts list.
  - 4. Be sure the motor turning direction is clockwise. And the belt can be pressed inward about 10mm.

NOTE: The dimensions of motor pulley and sewing speed are shown in Table 1.

## How to operate the new machine

Please run the new machine in the first four at 20% less speed than maximum. Then replace the new oil and thereafter the machine may be operated up to maximum speed.

## Lubrication and drainage

## 1. Lubrication Fig.1

Remove Screw A and fill in enclose high speed lubricate oil(or similar to Mobil#10, Esso#32) until the top of Oil Level indicator between two lines of Oil Level Sight Window. Then replace Screw A.

When the machine is operated for the first time is idle for a long time, please be sure to oil the top of the needle holder, guide, upper looper guide etc. Before operating the machine.

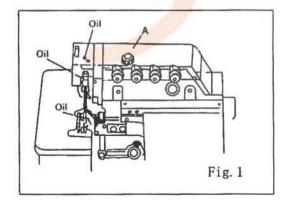
## 2. Drainage Fig.2

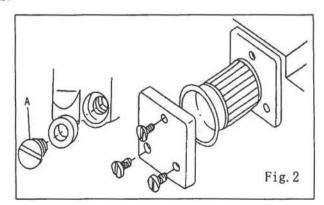
Remove Screw A and drain out the oil then replace Screw A.

For keeping the good lubrication and machine life, please replace the new oil when the new machine has been operating over four weeks. And after that, change oil every four months.

This machine has been fixed with oil filer, Please clean it every month or replace a new one if necessary.

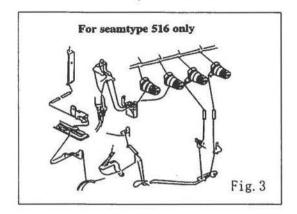
## 3. Needle Cooling Lubrication-Silicon oil.





## Threading the machine

Refer to the sewing type you need for correct threading. Any incorrect threading may cause thread break, uneven stitches or skip stitches etc.



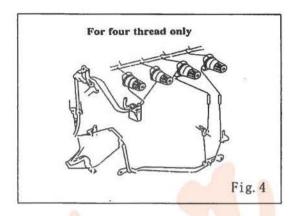
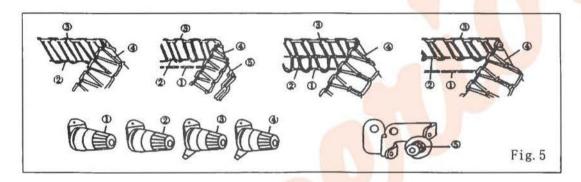


Fig. 6

#### Thread tension



The thread tension be adjusted according to sewing fabric, thickness, sewing thread, seam width, stitch length etc. Therefore the pressure of the Tension Nuts or Thread Guides must be adjusted in each individual case.

## 1. Tension Nuts Adjustment Fig.5

The tension Nut(I)controls the double chain needle thread or left side overlock needle thread.

The tension Nut(5) controls the double chain looper thread.

The tension Nut(2)controls the overlock needle thread.

The tension Nut(3)controls the upper looper thread.

The tension Nut(4) controls the 10wer looper thread.

#### 2. Needle Thread Control Fig.6

In case of sewing type 504,512,&514, push Thread guide ① and②to lowest point, and up to highest point to sewing type 503,505.

Note: The(+)direction is for more needle thread tension, and the(-)direction is for less needle thread tension.

### 3. Looper thread Control Fig.7

For sewing type 512, when Upper Looper is extremely left, push take up ①and ②at the position as the chain, line (----).

In case of sewing type 503, &505, When Upper Looper moves to lowest, set Take up ① and ② at the position as the continuous line ( — ).

Adjust thread guide 3 as follow. Point A: for stretchy thread is used.

Point B: for seaming and blind stitch hemming. Point C: for seaming type 512.

Adjust Thread guide 4 as follows.

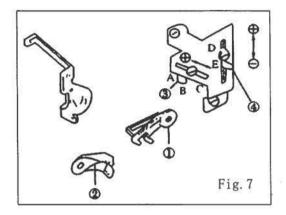
Point D: for stretchy thread is used. Point E: for seaming and blind stitch hemming.

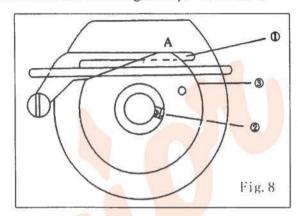
NOTE: The direction is for more thread in sewing seam. and the direction is for less thread in sewing seam.

## 4. Chain Looper Thread Cam Control Fig.8

When the needle moves to its highest position, the right corner of the Thread Cam 3 matchs with the upper surface of Thread Guide Bracket (1).

Loosen screw 2 and adjust the thread cam 3 as clockwise is late for timing of looper thread cam.





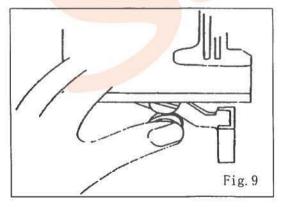
# Stitch length adjustment

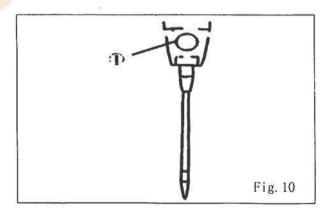
The stitch length adjustment is made according to the sewing fabric, differential feed ratio etc.

Keep pushing the Push Button enter deep inside.

Keep pressing the Push Button and match the desired stitch length which is shown on the pulley with the indicating point of Belt Cover.

Maxi diff ratio	Machine				Pulley sca	le		
	type	1	2	3	4	5	6	7
1:2	Seaming	1	1.5	2	2.5	3	3.5	3.8
1:3	Shirring	0.7	1	1.4	1.7	2	2.3	2.5
1:1.3	Serge	1.6	2.3	3.1	3.9	4.7	5.4	5.9
1:4	Special	0.6	0.9	1.2	1.5	1.8	2.1	1





# Needle replacement

Please use DCX27 or equivalent needle size.

Loosen Screw 1 and remove the old needle.

Insert the needle which long groove faces you and push it up deep into the needle hole until it stops and tighten Screw (1).

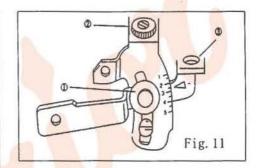
## Differential feed ratio adjustment

The differential feed ratio is the ratio of movements between Main Feed Dog and Differential feed dog, when the movement of Main feed dog is bigger than differential feed dog. the fabric be stretched in sewing, Othercise the fabric be shrinked.

Loosen Nut ① then turn screw ② in clockwise for stretching the fabric, and in reverse direction for shrinking the fabric then tighten Nut ①.

Note: When the surface of adjusting level ③ be set at the scale ② the differential feed ratio is 1:1, and if it be set over the scale its ratio can be adjustable up to 1:0.7.

Scale		1	2	3	4	5
D:W	1:1.3	-	1:0.7	1:0.9	1:1.1	1:1.3
Differe- ntial Feed	1:2	1:0.7	1:1	1:1.4	1:1.7	1:2
	1:3	1:1	1:1.5	1:2	1:2.5	1:3
ratio	1:4	1:1.1	1:1.6	1:2.3	1:2.8	1:3.3



## Parts relation and timing

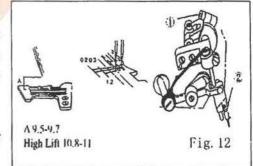
## 1. Needle and Needle Plate Fig.12

When the Needle moves to the highest position, the distance between needle point (left needle if two needle)

and needle plate is 9.5-9.7mm for standard lift machine or 10.8-11.0mm for high lift machine. Each needle must centers in each needle slot of Needle plate. The right needle must ahead about 0.2-0.3mm than left needle. And the distance between the needle point (right needle if two needle) to needle slot of Needle Plate or presser foot is 1.2mm.



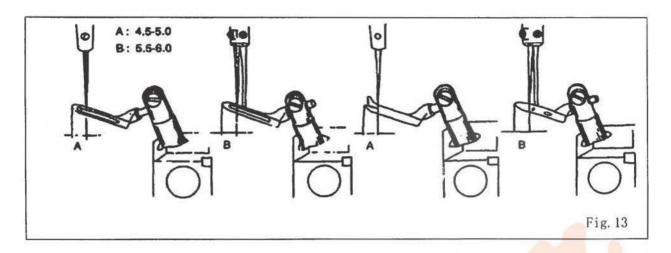
Rotate the pulley to check if needle center in each needle slot of needle plate. or you may loosen screw 2 and adjust needle holder.



Rotate the pulley for removing the needle to the highest position, tap the Needle Holder guide until the correct needle height is obtained. Tighten screw(1).

#### 2. Upper Looper(Spreader) and Needle Fig. 13

When the Upper (spreader) moves to the extremely left, the distance between the point of looper (spreader) and center line of needle is 4.5-5.0, for 1 needle (spreader) to center line of left needle is 5.5-6.0mm for 2 needle machine.



## 3. Lower Looper and Needle Fig.14, 15

When the lower looper moves to the extremely left. the distance between looper point and center line of needle (left needle if 2 needle) is 3.4-3.6mm for high lift machine. When the lower looper moves to the center line of needle (1eft needle if 2 needle) the gap between needle and looper is 0-0.05mm.

## 4. Upper Looper and Lower Looper Fig.16

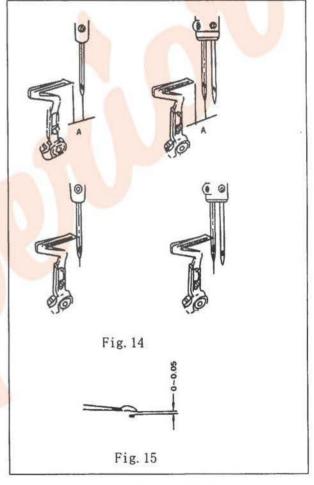
When the Upper and Lower Looper is crossed, the upper looper is as near as possible to the lower looper, the gap A is 0.5mm, the gap B is 0.2mm. When Needle moves to the lowest position, the gap between Needle and front Needle guard B if 0.1-0.2mm.

## 5. Needle and needle Guard Fig.17

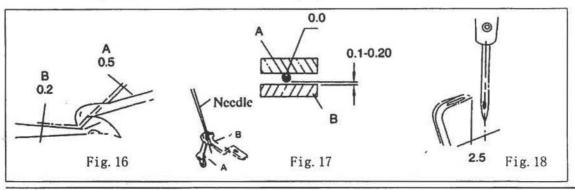
When the Lower Looper point is opposite the center line of Needle(left needle if 2 needle). The gap between Needle and rear Needle Guard A is Oram, When Needle moves to the lowest position, the gap between Needle and front Needle guard B if 0.15-0.2mm.

### 6. Chain Looper and needle Fig.18

The Chain Looper must be fixed into the lowest position of the holder and when the Chain Looper



moves the extremely left, the distance between the looper point and center line of needle is 2.5mm.



#### **Problem settlement:**

#### Needle break

#### REASON

- 1. Needle installed wrong.
- 2. Wrong needle size.
- 3. Needle is bended.
- 4. Wrong relation with Needle Guard.
- 5. Wrong relation with looper.
- Needle does not center the needle.
   Slot of Needle Plate or Presser Foot.

#### Thread break

#### REASON

- 1. Inferior quality of thread.
- 2. Thread thicker than Needle hole.
- 3. Wrong threading.
- 4. Thread tension is too strong.
- 5. Needle installed wrong.
- 6. Thread Stand installed wrong.
- Over heat of Needle: (1)N0 silicon oil
   (2)Wrong setting of Needle Guard
- 8. Thread Disc or Guide is burred.
- 9. Wrong relation of Needle and Looper.
- Needle, Looper needle Plate and guide is burred.

#### Skip stitches

#### REASON

- 1. Wrong relation of Needle and Looper.
- 2. Wrong threading.
- 3. Needle installed wrong.
- 4. Inadequate thread tension or tension too strong.
- 5. Looper point is damaged.
- 6. Needle is bended.
- 7. Wrong installed needle Guard.

#### Loosen stitches

#### REASON

- 1. Wrong threading
- Thread is thicker than Needle hole.
- Tension Disc do not press thread properly.
- 4. Needle thread is not lubricated.
- Wrong setting of Needle and Loopers.

#### CORRECT

- 1. Reset needle correctly.
- 2. Use properly needle for fabric and thread.
- 3. Replace new needle.
- 4. Readjust Needle guard.
- 5. Readjust looper.
- 6. Readjust the Needle Plate and Presser Foot.

#### CORRECT

- 1. Use good quality thread.
- 2. Use proper Needle for fabric and thread.
- 3. Rethreading correctly.
- 4. Readjust thread tension nut.
- 5. Reset needle correctly.
- 6. Reset thread stand for threading smoothly.
- (1)Fill in Silicone oil.
   (2)Readjust Needle Guard.
- 8. Gring off polish or replace new one.
- 9. Readjust Needle and Looper.
- 10. Grind off, polish or replace new one.

#### CORRECT

- 1. Readjust Needle and Looper.
- 2. Rethreading correctly.
- 3. Reset Needle correctly.
- 4. Readjust Thread Tension Nut.
- 5. Replace new one.
- 6. Replace new one.
- 7. Readjust Needle guard.

#### CORRECT

- 1. Rethreading correctly.
- 2. Use proper Needle.
- 3. Reset Tension Disc properly.
- 4. Fill silicon oil.
- 5. Readjust needle and loopers.

#### Uneven stitches

#### REASON

- 1. Wrong threading.
- 2. Thread stand installed wrong.
- 3. Lower Knife installed wrong.
- 4. Khives do not trim neatly.
  - (1)Knives installed wrong.
  - (2)Dull lower knife.
- 5. Thread Disc or Guide in burred.
- 6. Needle point is damaged.
- 7. Inadequate height of feed dogs.
- 8. Inadequate thread tension.

#### Wrinkled stitches

#### REASON

- 1. Thread tension is too strong.
- 2. Inadequate pressure of presser foot.
- 3. Inadequate height of feed dogs.
- 4. Knives do not trim neatly.
- 5. Differential feed is not matched.
- 6. Needle is too thick.
- Seam width is too narrow against the chain of finger of Needle plate.

## Thread chain does not come out smoothly

#### REASON

- 1. Presser foot installed wrong.
- 2. Inadequate timing of looper thread cam.
- 3. Double chain looper installed wrong.
- 4. Wrong threading.
- 5. Inadequate or too strong thread tension.
- 6. Wrong relation of Needle and looper.
- Needle Plate Thread Disc or Presser foot is burred.
- 8. Thread tension disk is rough.

#### CORRECT

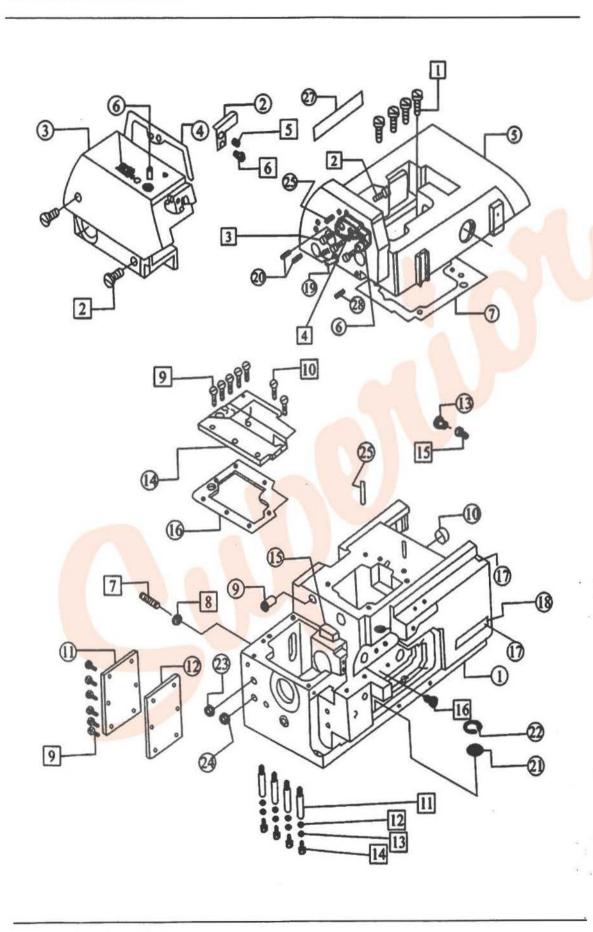
- 1. Rethreading correctly.
- 2. Reset Thread for threading smoothly.
- 3. Readjust 10wer knife.
- 4. Correct as follow:
  - (1)Readjust Knives.
  - (2)Sharpen or replace new knives.
- 5. Gring off, Polish or replace new one.
- 6. Replace new Needle.
- 7. Readjust feed dogs.
- 8. Readjust Thread tension nut.

#### CORRECT

- 1. Readjust thread tension nut.
- 2. Readjust Presser foot pressure.
- 3. Readjust feed dogs.
- 4. Readiust knives or sharpen knives.
- 5. Readjust differential feed ratio.
- 6. Use proper Needle for fabric and thread.
- 7. Readiust seam width or replace the chain of finger.

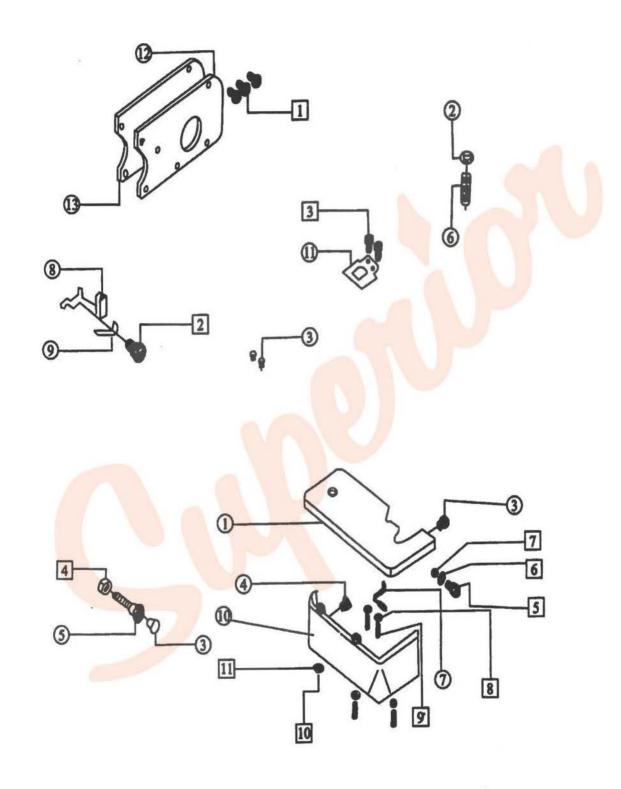
#### CORRECT

- 1. Reset presser foot correctly
- 2. Readjust Looper thread Cam.
- 3. Reset Double chain looper correctly.
- 4. Rethreading correctly.
- 5. Readjust Thread tension nut.
- 6. Readjust Needle and looper.
- 7. Gring off, polish or replace new one.
- 8. Polish thread tension disk.



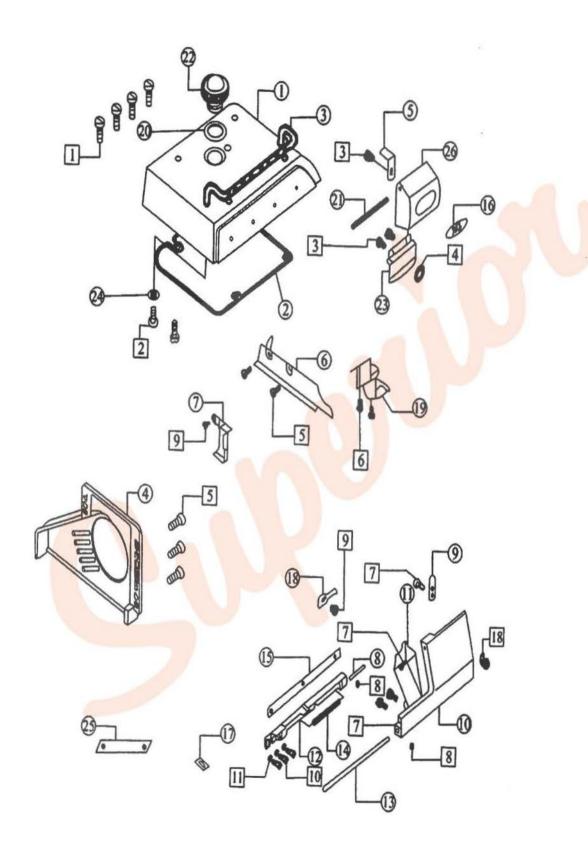
# A. Frame assemblies

ef.NO	Part NO.	Name	Amt. Req.			
	1 41 0 110.	Name	3线	4线	5线	
1	MI-1A	machine frame	1	1	1	
2	M1-2	needle thread cover plate	1	1	1	
3	M1-3A	upper knot cover	1	1	1	
4	M1-4A	upper knot cover pad	1	1	1	
5 .	M1-5A	lather shell upper knot	1	1	1	
6	M1-6	needle plate	1	1	1	
7	M1-7	upper washer	1	1	1	
8	M1-8	oil tube	1	1	1	
9	M1-9	rear oil adhesive case	1	1	1	
10	M1-10	oil seal	1	1	1	
11	M1-11	rear cover	1	1	1	
12	M1-12	rear cover oil seal	1	1	1	
13	M1-13	oil seal	1	1	1	
14	M1-14	cover	1	1	1	
15	M1-15	oil sear washer	1	1	1	
16	M1-16	cover washer	1	1	1	
17	M1-17	rivet	4	4	4	
18	M1-18A	machine modle plate	1	1	1	
19	M1-19	model tube	1	1	1	
20	M1-20	pin	2	2	2	
21	M1-21	oil screen	1	1	1	
22	M1-22	snap ring	1	1	1	
23	M1-23	oil seal I	1	1	1	
24	M1-24	oil seal II	1	1	1	
25	M1-25	begin pin	4	4	4	
26	M1-26	trade mark plate	1	1	1	
27	M1-28	mard plate	1	1	1	
28	M1-29	oil amount adjusting pin	1	1	1	
1	S064	screw	4	4	4	
2 .	S065	screw	3	3	3	
3	S054	needle bar bushing screw	2	2	2	
4	S061	needle lind set serew	1	1	1	
5	S009	needle thread cover plate top silk	1	1	1	
6	S071	needle thread cover plate set screw	1	1	1	
7	S041	main cover bearing regulate screw	1	1	1	
8	N03	main cover bearing regulate nut	1	1	1	
9	S032	rear cover plate	11	11	11	
10	S036	lower cover plate	2	2	2	
11	S081	oil pan join screw	4	4	4	
12	W14	washer	4	4	4	
13	₩03	elasticity washer	4	4	4	
14	S080	nexagon socker screw	4	4	4	
15	S044	screw	1	1	1	
16	S065	screw	1	1	1	



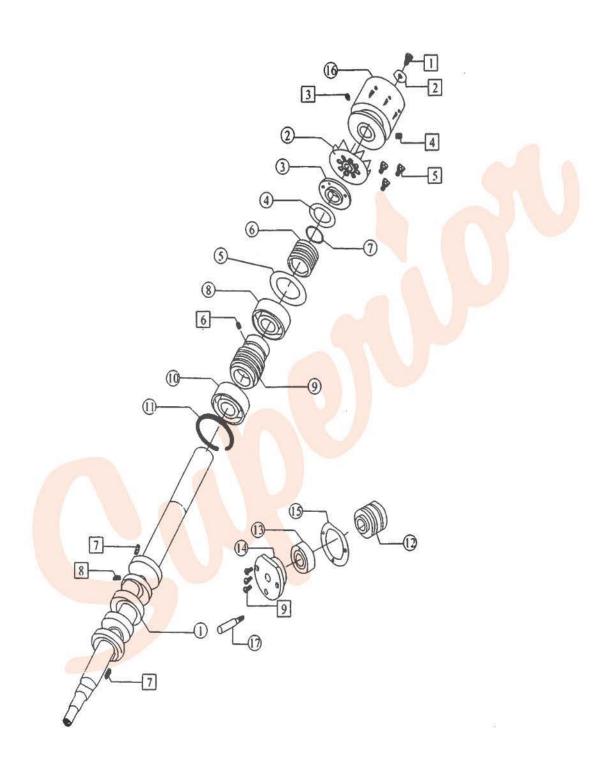
# B. Cloth plate assemblies

Ref. NO	Part NO.	Name		Amt. Req.	
Ne1. NO	rart No.	Name	3线	4线	5线
1	M2-1	cloth plate	1	1	1
	5M2-1	cloth plate	0	0	0
2	M2-2	washer	1	1	1
3	M2-3	colloid cose	4	4	4
4	M2-4	colloid cose	1	1	1
5	M2-5	cloth plate spring screw	1	1	1
6	M2-6	spring	1	1	1
	M2-7	cloth plate spring	1	1	1
	M2-8	cloth plate slider cover	1	1	1
32.5	M2-9	cloth plate cover spring	1	1	1
10	M2-10	cloth plate lower plate	1	1	1
	5M2-10	cloth plate lower plate	0	0	0
11	M2-11	washer	1	1	1
	M2-12	upper looper sealing plate	1	1	1
13	M2-13	upper looper sealing plate washer	I	1	1
1	S037	upper looper sealing plate screw	3	3	3
2	S049	set screw	1	1	1
3	S010	serew	2	2	2
4	N03	set nut big cover stable screw	2	2	2
5	S083	screw	1	1	1
6	W11	screw washer	1	1	1
7	NO1	screw nut	1	1	1
8	W08	washer	2	2	2
9	S012	big cover spring screw	2	2	2
10	S099	big cover join screw	3	3	3
11	W07	big cover join screw washer	3	3	3
2					



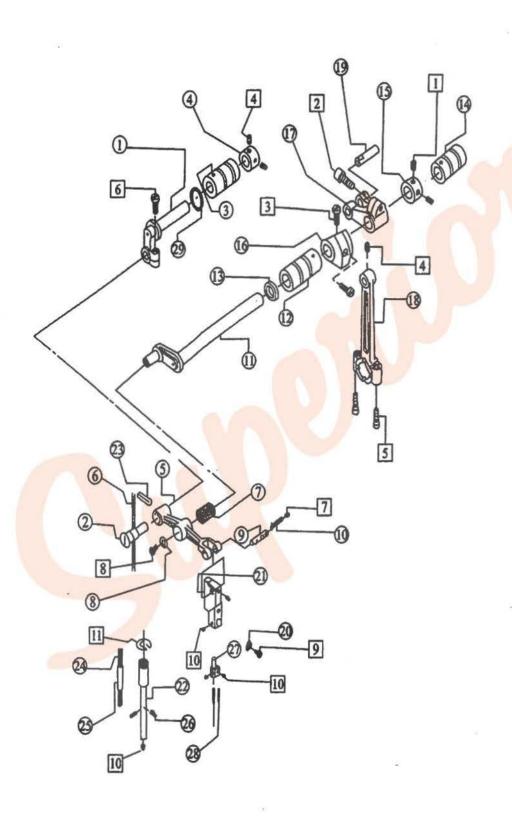
# C. Cover assemblies

Ref. NO	Part NO.	None	Amt. Req.			
1	Part NO.	Name	3线	4线	5线	
	M3-1	upper cover	1	1	1	
2	M3-2	upper cover washer	1	1	1	
3	M3-3	thread guide supporter	1	1	1	
4	M3-4A	belt cover	1	1	1	
5	M3-5	thread cover spring	1	1	1	
6	M3-6	cloth guide plate	1	1	1	
7	M3-7	oil guide II	1	1	1	
8	M3-8	pin	1	1	1	
9	M3-9	front spring	1	1	1	
10	M3-10	frong cover	1	1	<u> </u>	
11	M3-11	front cover guard	1	1	0	
	5M3-11	front cover guard	0	0	1	
12	M3-12	front cover hinge	1	1	1	
13	M3-13	hinge pin	1	1	1	
14	M3-14	front cover hinge spring	.1	1	1	
15	M3-15	front cover hinge washer	1	1	1	
16	M3-16A	trade mark plate	1	1	1	
17	M3-17	oil flow window	2	2	2	
18	M3-18	front cover snap guard	1	1	1	
19	M3-19	oil guard I	1	1	1	
20	M3-20	oil sight gauge washer	1	1	1	
21	M3-21	pin	1	1	1	
22	M3-22A	oil cover gauge cover	1	1	1	
23	M3-23A	oil sight	1	1	1	
24	M3-24	washer	1	1	1	
25	M3-25	trade mark plate	1	1	1	
26	M3-26A	upper cover	1	1	1	
1	S098	upper cover screw	4	4	4	
2	S091	thread guard screw	2	2	2	
3	S017	upper cover spring screw	3	3	3	
4	W17	washer	2	2	2	
5	S032	cloth guide plate screw	5	5	5	
6	S020	oil guard screw I	2	2	2	
7	S090	snap plate	4	4	4	
8	S082	screw	3	3	3	
9	S027	front cover plate block spring screw	2	2	2	
	S024	front cover hinge screw	3	3	3	
10	W11	front cover hinge washer	3	3	3	
		snap uing	1	1	1	



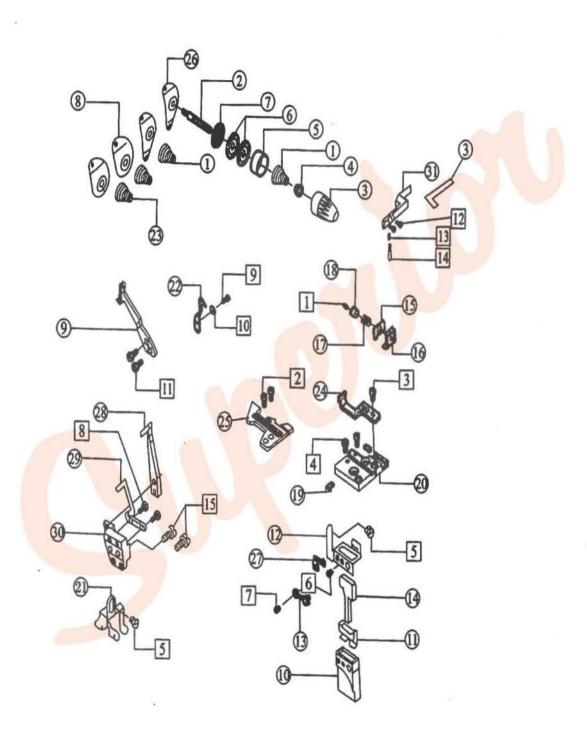
# D. Main shaft assemblies

Ref. NO Part NO.	rt NO. Name		Amt. Req.			
er. no rare no.		3线	4线	5线		
1 M4-1	main shaft	1	1	1		
2 M4-2	wheel	1	1	1		
3 M4-3	rear shaft bearing cover	1	1	1		
4 M4-4	rear shaft bearing cover washer	1	1	1		
5 M4-5	main shaft spring washer	1	1	1		
6 M4-6	main shaft busing	1	1	1		
7 M4-7	Seal ring	1	1	1		
8 M4-8	main shaft queen shaft bearing	1	1	1		
9 M4-9	oil pump worm	1	1	1		
10 M4-10	main shaft bearing	1	1	1		
11 M4-11	shaft end bushing washer	1	1	1		
12 M4-12	main shaft light bushing	1	1	1		
13 M4-13	bearing 80200	1	1	1		
14 M4-14	bearing cover	1	1	0		
5M4-14	bearing cover	0	0	1		
15 M4-15	bearing cover washer	1	1	1		
16 M4-16	pulley	1	1	1		
17 5M4-17	bulgy pulley bearing	0	0	0		
1 S073	pulley screw	1	1	1		
2 W03	pulley screw washer	1	I	1		
3 S070	pulley set screw	1	1	1		
4 S085	pulley set screw	1	1	1		
5 S032	rear shafting bearing cover screw	3	3	3		
6 S043	oil pump worm screw	1	1	1		
7 S078	screw	2	2	2		
8 S019	screw	1	1	1		
9 \$022	bearing cover screw	3	3	3		



# E. Needle bar assemlies

Ref. NO	Part NO.	Name	Amt. Req.			
			3线	4线	5线	
1	M5-1	needle bur driving frame rock shaft	1	I	I	
2	M5-2	eccentric shaft	1	1	1	
3	M5-3	needle bar shaft bushing back	1	1	1	
4	M5-4	snap ring	1	1	1	
5	M5-5	throat driving crank	1	1	1	
6	M5-6	oil wick	1	1	1	
7	M5-7	needle bearing	1	. 1	Î	
8	M5-8	washer ring	1	1	1	
9	M5-9	throat clip guide pin	1	1	1	
10	M5-10	oil wick	1	1	1	
11	M5-11	throat bar rock crank	1	1	1	
12	M5-12	needle driving shaft bearing	Ì	1	Ĩ	
13	M5-13	seal ring	2	2	2	
14	M5-14	needle bar rear driving copper bearing	i	1	1	
15	M5-15	snap ring	2	2	2	
16	M5-16	balance block	i	1	1	
17	M5-17	needle bar flame rock shaft crank	0	i i	0	
	5M5-17	throat bar shaft crank		0	1	
18	M5-18	needle bar connecting rod	1			
	M5-19	connecting link pin	1	1 1		
T.C.	M5-20	washer		1 1	1	
0.500	M5-21	throat clip guide bushing	1	1 1	1	
22	M5-22	needle bar	1	1 1	1	
-	M5-23	oil felt		1 1	1	
	M5-24	oil wick	1	1 1	1	
	M5-25	The state of the s	1	1 1	1	
	Prince: Disease.	plasties tube	1	1	1	
26	M5-26	oil wick	2	2	2	
27	4M5-27	needle clamp	0	1	0	
	3M5-27	needle clamp	1	0	0	
0.0	5M5-27	needle clamp	0	0	1	
28	M5-58	needle	1	1	1	
29	M5-59	oil seal	1	2	2	
1	S057	snap ring screw	4	4	4	
2	S102	hexagon socket screw	1	1	1	
3	S055	balance block position screw	2	2	2	
4	S043	frame rock shaft set screw	3	3	3	
5	S074	shaft position screw	2	2	2	
6	S053	screw	1	1	1	
7	S001	screw	1	1	1	
8	S006	screw	1	1	1	
9	S012	screw	1	1	1	
10	S009	screw	5	5	5	
11	E01	snap ring	Ĩ	1 1	1	

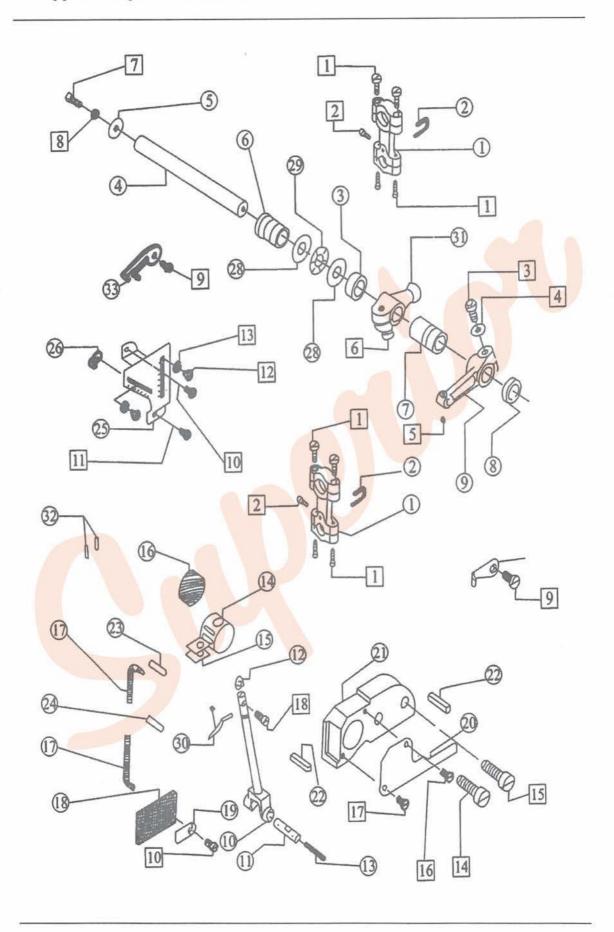


# F. Thread guide assemblies

ef. NO	Part NO.	Name		Amt. Req.	
		Train o	3线	4线	5线
1	M6-1	thread tension spring	1	2	2
2	M6-2	thread tension screw	3	4	4
3	M6-3A	thread tension nut	3	4	4
4	M6-4	thread tension spring	3	4	4
5	M6-5A	thread tension spring retainer house	3	4	4
6	M6-6	thread tension disc	6	8	8
7	M6-7	thread tension disc washer	3	4	4
8	M6-8A	thread guide	2	2	2
9	M6-9	upper thread take-up	1	1	0
	5M6-9	upper thread take-up	0	0	1
10	M6-10	oil box	1	1	1
11	M6-11	oil feIt	1		1
12	M6-12	thread guide	1	1	1
13	M6-13	oil box washer	1	1	1
14	M6-14	oil feet	1	1	1
15	M6-15	tension spring	1	1	1
16	M6-16	thread controller disc holder	1	1	1
17	M6-17	spring	1	1	1
18	M6-18	thread controller disc guide bushing	1	1	1
19	M6-19	thread plate positionign rod	2	1 0	1
20	M6-20	thread plate barcket	2	2	2
21	M6-21	thread mark guide	1	1	1
21	5M6-21		1	1	0
00	P. C.	thread mark guide	0	0	1
22	M6-22	teat needle guard	1	1	1
23	M6-23	thread tension spring	2	2	2
24	4M6-24	front needle guard	0	1	0
	3M6-24	front needle guard	1	0	0
	5M6-24	front needle guard	0	0	1
25	4M6-25	throat plate	0	1	0
	3M6-25	throat plate	1	0	0
	5M6-25	throat plate	0	0	1
26	M6-26A	thread guide	1	2	1
27	5M6-27	thread guide	0	0	1
28	5M6-28	needle guard I	0	0	1
29	5M6-29	needle guide II	0	0	1
30	M6-30	needle guard barcket	1	1	0
	5M6-30	needle guard barcket	0	0	1
31	M6-31	snap plate	1	1	1
32	M6-32	snap plate washer	1	1	1
1	S099	screw	1	1	1
2	S035	throat plate screw	2	2	2
3	S016	front needle snap screw	1	1	1
4	S061	throat plat barcket screw	2	2	2
5	S015	thread guide holder screw	2	2	2
6	S033	oil box set screw	1	1	1

# F. Thread guide assemblies

Ref. NO	Part NO.	Name		Amt. Req.	
er. NO	rart NO.	ivame	3线	4线	5线
7	S072	oil box washer set screw	1	1 .	1
8	S005	rear needle guard screw	2	2	2
9	S023	needle guard screw	1	1	1
10	W07	needle guard washer	1	1	1
11	S017	thread take up screw	2	. 2	2
12	S103	snap plate screw I	2	2	2
13	S019	snap plate screw II	1	1	1
14	S104	snap plate set screw	1	1	1
15	S045	screw	2	2	2
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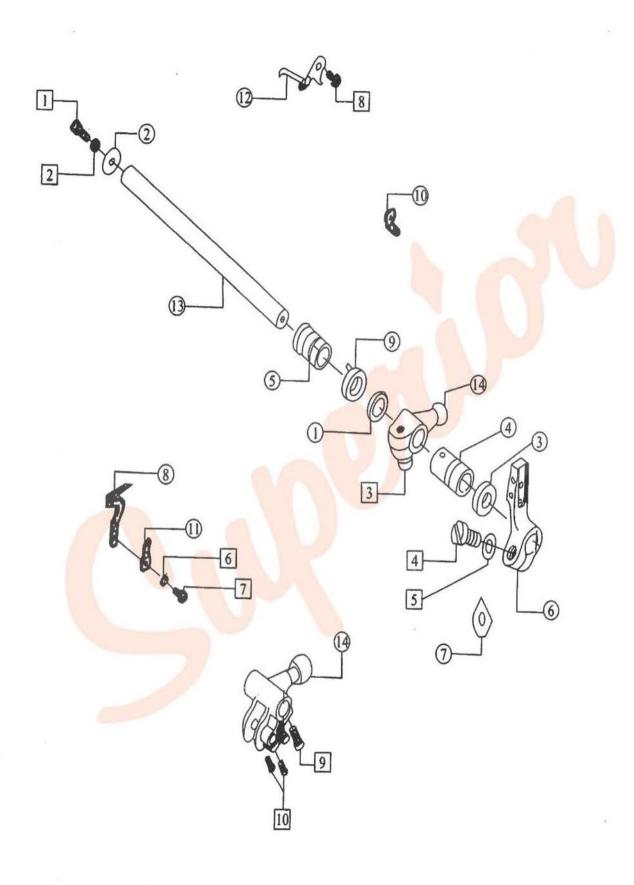


# G. Upper looper assemblies

Ref. NO	Part NO.	Name	Amt. Req.			
		- Solvenie von	3线	4线	5线	
1	M7-1	looper link	2	2	2	
2	M7-2	looper link holder	2	2	2	
3	M7-3	thickness washer	0	1	0	
	5M7-3	thickness washer	1	0	1	
4	M7 -4	upper looper shaft	1	1	1	
5	M7-5	big washer	1	1	1	
G	M7-6	upper looper shaft rear bashing	1	1	1	
7	M7-7	upper looper shaft foot bushing	1	1	1	
755	M7-8	upper looper shaft oil seal	1	1	1	
110000	M7-9	upper looper shaft crank	1	1	1	
10	M7-10	upper looper shaft bar	1	1	1	
11	M7-11	connecting rod shaft pin	1	1	1	
12	M7-12	washer	1	1	1	
20.00	M7-13	oil wick	1	1	1	
14	M7-14	upper looper shaft slide bar block	1	1	1	
15	M7-15	oil felt	2	2	2	
16	M7-16	oil felt	1	1	1	
17	M7-17	oilwick	2	2	2	
18	M7-18	screen oil plate	1	1	1	
19	M7-19	felt plate	1	1	1	
20	M7-20	thread holder snap plate	- 1	1	1	
21	M7-2I	upper looper shaft slide bar bracket	1	1	1	
22	M7-22	oil seal	2	2	2	
23	M7-23	oil tube	1	1.	1	
24	M7-24	oil tube	1	1	1	
25	M7-25	thread amount regulating plate	1	1	1	
26	M7-26	upper looper thread guide	1	1	1	
27	M7-27	upper looper shaft thread plate	1	1	1	
28	M7-28	shaft bearing guaid	2	2	2	
29	M7-29	lower looper holder copper	1	1	1	
30	M7-30	looper	1	1	1	
31	M7-31	upper looper crank bearing	0	1	0	
	5M7-31	upper looper crank bearing	1	0	1	
32	M7-32	threading tube	2	2	2	
33	M7-33	two for thread guide	1	1	1	
1	S074	shaft screw	8	8	8	
2	S0384	screw	2	2	- 2	
3	S058	upper looper shaft crank screw	1	1	1	
1	W12	upper looper shaft washer	1	1	1	
5	S009	link pin set screw	1	1	1	
6	S101	nexagon socket screw	1	1	1	
7	S036	upper looper shaft screw	1	1	1	
8	WO-4	washer	1	1	1	
9	S032	upper looper shaft thread guide screw	2	2	2	
10	S027	thread amount regulating plate	2	2	2	

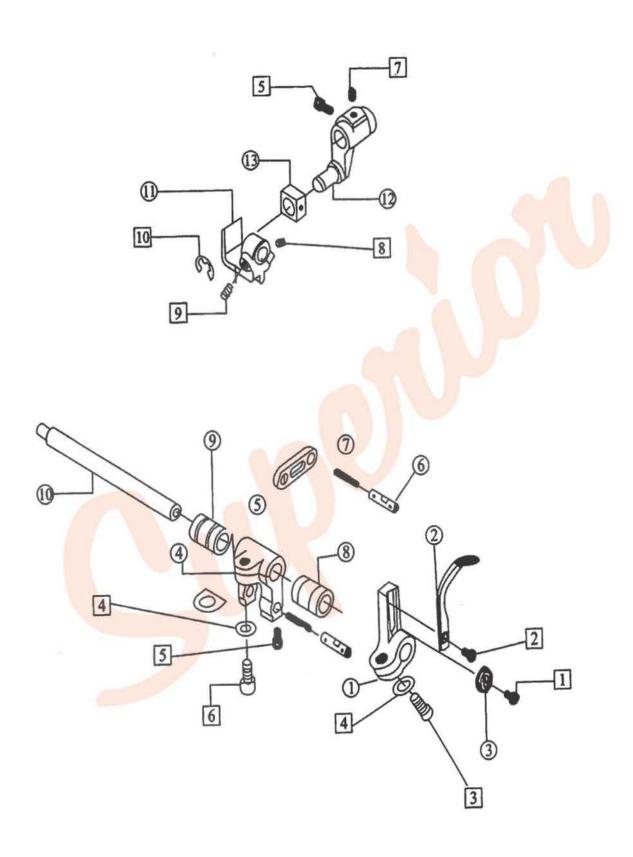
# G. Upper looper assemblies

ef. NO	Pant NO	Money		Amt. Req.		
er. NO	Part NO.	Name	3线	4线	5线	
11	S037	screw	1	1	1	
12	S014	looper shaft thread guide screw	2	2	2	
13	W08	looper shaft thread guide washer	2	2	2	
14	S097	upper looper shaft thread plate screw	1	1	1	
15	S062	upper looper shaft thread plate screw	1	1	1	
16	S012	thread holder snap plate screw	1	1	1	
17	S095	thread holder snap plate screw	1	1	1	
18	S015	upper looper set screw	1	1	I	



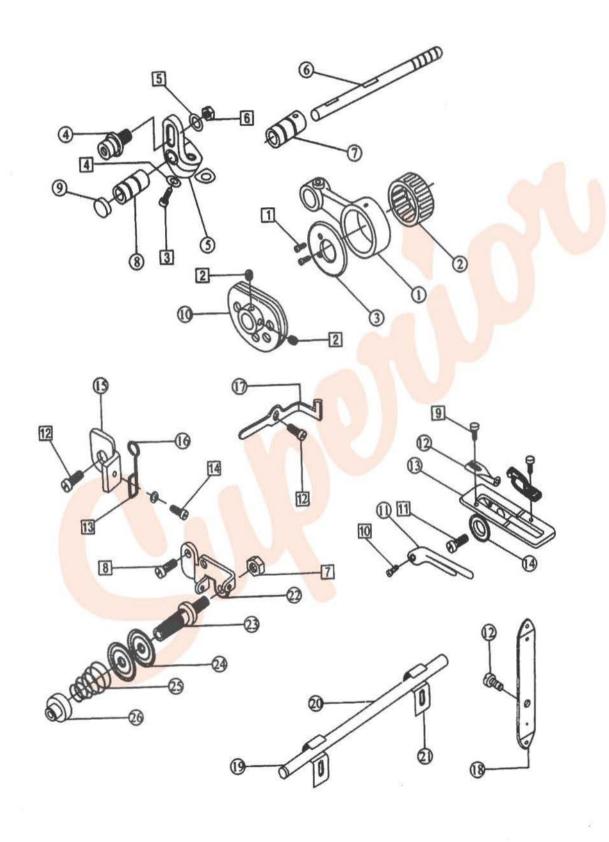
# H. Lower looper assemblies

Ref. NO	Part NO.	Name	Amt. Req.		
er. No	rart NO.	Name	3线	4线	5线
1	M8-1	Lower looper shaft copper bushing	1	1	0
	5M8-1	washer	0	0	1
2	M8-2	lower looper shaft washer	1	1	1
3	M8-3	oil seal	1	1	2
4	M8-4	lower looper front bushing	1	ı	1
5	M8-5	lower looper rear bushing	1	1	1
6	M8-6	lower looper holder	1	1	1
7	M8-7	lower looper crank washer	2	2	5
8	M8-8	lower looper	1	1	0
9	M8-9	copper washer	1	1	
10	M8-10	thread guide	1	1	1
11	M8-11	lower looper thread guide	1	1	
12	M8-12	lower looper 3-thread guide	1		
	M8-13	lower looper shaft	1		0
25.540	5M8-13	lower looper shaft	-0	0	1
	M8-14	lower looper crank	i i	ř	0
	5M8-14	lower looper crank	0	0	1
477	S036	lower looper shaft screw	1	1	1
	W04	elastic washer	1	i	1 1
5977	S101	crank screw	1		1
98	S060	lower looper holder screw	1	,	
	W12	lower looper holder washer	1	1	
	W07	lower looper holder washer	, i	1	słs P
	S022	lower looper screw	1	1	
	S032		1	1	- 1
	S067	lower looper thread guide screw	1	ı	l E
	S015	crank screw	0	0	2 2
			*		
	61	Till			



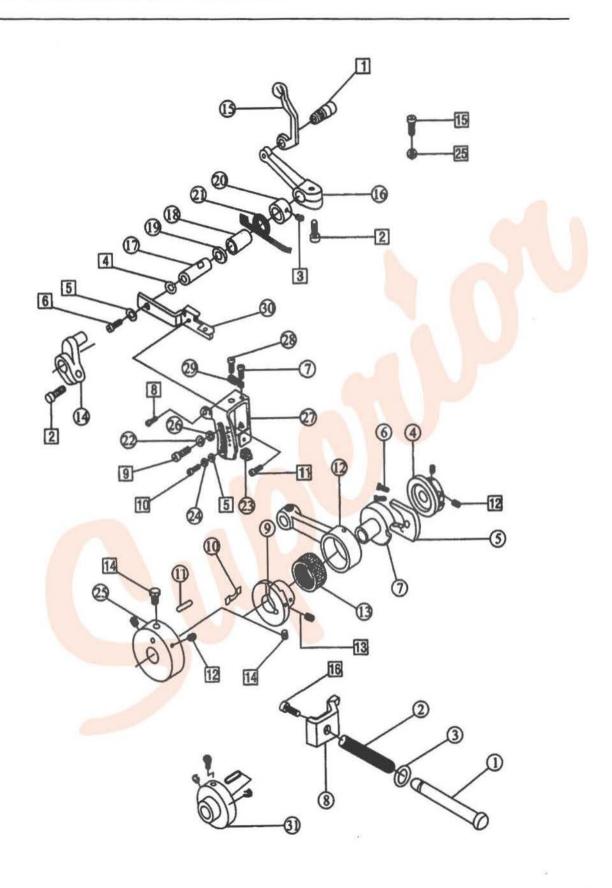
# I. Front lower looper assemblies

ef. NO	Part NO.	Name	Amt. Req.		
01.110	rait NU.	ivame	3线	4线	5线
1	5M9-1	Front looper shaft holder	0	0	1
2	5M9-2	front looper	0	0	1
3	5M9-3	front looper shaft regulding washer	0	0	1
4	5M9-4	front looper crank	0	0	1
5	5M9-5	regulating plate	0	0	1
6	5M9-6	regulating plate pin .	0	0	2
7	5M9-7	oil thread	0	0	2
8	5M9-8	front looper shaft front bushing	0	0	1
9	5M9-9	front looper shaft rear bushing	0	0	1
10	5M9-10	frong looper shaft	0	0	. 1
11	5M9-11	driving lever	0	0	1
12	5M9-12	driving crank	0	0	1
13	5M9-13	front looper slide block	0	0	1
11	S005	front looper thread guide screw	0	0	1
2	S016	front looper guide set screw	0	0	1
3	S060	front looper holder set screw	0	0	. 1
4	W12	front looper holder screw washer	0	0	2
5	S028	front looper crank screw	0	0	2
6	S101	front looper crank holder set screw	0	0	1
7	S043	nexagon socket set screw	0	0	1
8	S094	driving lever set screw	0	0	1
9	S093	driving lever set screw	0	0	1
10	E03	snapring	0	0	I
		*			



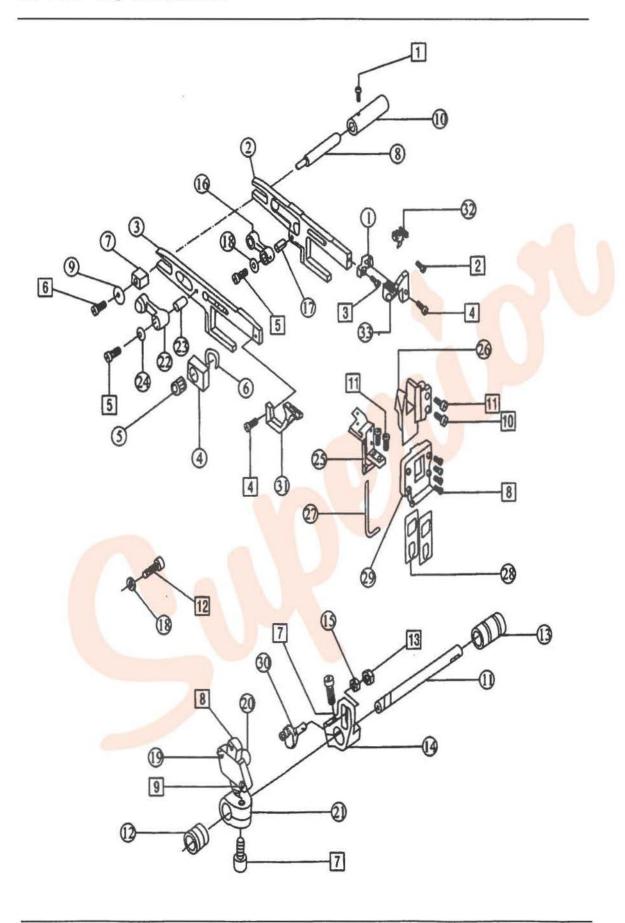
# J. Cam assemblies

art NO.  0-1  0-2  0-3  0-4  0-5  0-6  0-7  0-8  0-9  0-10  0-11  0-12  0-13  0-14  0-15  0-16  0-17  0-18  0-19  0-20  0-21  0-22  0-23  0-24	link bear bearing snap ring pin shaft crank shaft bushing(right) bushing(left) oil seal cam thread guide finger thread guide plate holder washer stopper bracket thread guide hook 2-thread thread guide rear thread guide finger thread guide tube bushing thread guide tube thread guide tube clamp thread tension plate holder holder spool	3线 0 0 0 0 0 0 0 0 0 0 0 0 0	4线 0 0 0 0 0 0 0 0 0 0 0 0 0	5线 1 1 1 1 1 1 1 1 1 1 1 1 1
0-2 0-3 0-4 0-5 0-6 0-7 0-8 0-9 0-10 0-11 0-12 0-13 0-14 0-15 0-16 0-17 0-18 0-19 0-20 0-21 0-22 0-23	bearing snap ring pin shaft crank shaft bushing(right) bushing(left) oil seal cam thread guide finger thread guide plate holder washer stopper bracket thread guide hook 2-thread thread guide rear thread guide finger thread guide tube bushing thread guide tube thread guide tube clamp thread tension plate holder			1
0-3 0-4 0-5 0-6 0-7 0-8 0-9 0-10 0-11 0-12 0-13 0-14 0-15 0-16 0-17 0-18 0-19 0-20 0-21 0-22 0-23	bearing snap ring pin shaft crank shaft bushing(right) bushing(left) oil seal cam thread guide finger thread guide plate holder washer stopper bracket thread guide hook 2-thread thread guide rear thread guide finger thread guide tube thread guide tube thread guide tube thread guide tube clamp thread tension plate holder			1 1 1 1 1 1 2 1 2
0-4 0-5 0-6 0-7 0-8 0-9 0-10 0-11 0-12 0-13 0-14 0-15 0-16 0-17 0-18 0-19 0-20 0-21 0-22 0-23	pin shaft crank shaft bushing(right) bushing(left) oil seal cam thread guide finger thread guide plate holder washer stopper bracket thread guide hook 2-thread thread guide rear thread guide finger thread guide tube bushing thread guide tube thread guide tube clamp thread tension plate holder			1 1 1 1 1 1 2 1 2
0-5 0-6 0-7 0-8 0-9 0-10 0-11 0-12 0-13 0-14 0-15 0-16 0-17 0-18 0-19 0-20 0-21 0-22 0-23	shaft crank shaft bushing(right) bushing(left) oil seal cam thread guide finger thread guide plate holder washer stopper bracket thread guide hook 2-thread thread guide rear thread guide finger thread guide tube bushing thread guide tube thread guide tube clamp thread tension plate holder	0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0	1 1 1 1 1 1 2 1 2
0-6 0-7 0-8 0-9 0-10 0-11 0-12 0-13 0-14 0-15 0-16 0-17 0-18 0-19 0-20 0-21 0-22 0-23	shaft bushing(right) bushing(left) oil seal cam thread guide finger thread guide plate holder washer stopper bracket thread guide hook 2-thread thread guide rear thread guide finger thread guide tube bushing thread guide tube clamp thread tension plate holder		0 0 0 0 0 0 0 0 0 0	1 1 1 1 1 1 2 1 2
0-7 0-8 0-9 0-10 0-11 0-12 0-13 0-14 0-15 0-16 0-17 0-18 0-19 0-20 0-21 0-22 0-23	bushing(right) bushing(left) oil seal cam thread guide finger thread guide plate holder washer stopper bracket thread guide hook 2-thread thread guide rear thread guide finger thread guide tube bushing thread guide tube thread guide tube clamp thread tension plate holder	0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0	1 1 1 1 1 1 2 1 2
0-8 0-9 0-10 0-11 0-12 0-13 0-14 0-15 0-16 0-17 0-18 0-19 0-20 0-21 0-22 0-23	bushing(left) oil seal cam thread guide finger thread guide plate holder washer stopper bracket thread guide hook 2-thread thread guide rear thread guide finger thread guide tube bushing thread guide tube thread guide tube clamp thread tension plate holder	0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0	1 1 1 1 1 1 2 1 2
0-9 0-10 0-11 0-12 0-13 0-14 0-15 0-16 0-17 0-18 0-19 0-20 0-21 0-22 0-23	oil seal cam thread guide finger thread guide plate holder washer stopper bracket thread guide hook 2-thread thread guide rear thread guide finger thread guide tube bushing thread guide tube thread guide tube clamp thread tension plate holder	0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0	1 1 1 1 1 1 2 1 2
0-10 0-11 0-12 0-13 0-14 0-15 0-16 0-17 0-18 0-19 0-20 0-21 0-22 0-23	thread guide finger thread guide plate holder washer stopper bracket thread guide hook 2-thread thread guide rear thread guide finger thread guide tube bushing thread guide tube thread guide tube clamp thread tension plate holder	0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	1 1 1 1 1 1 2 1 2
0-11 0-12 0-13 0-14 0-15 0-16 0-17 0-18 0-19 0-20 0-21 0-22 0-23	thread guide finger thread guide plate holder washer stopper bracket thread guide hook 2-thread thread guide rear thread guide finger thread guide tube bushing thread guide tube thread guide tube clamp thread tension plate holder	0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	1 1 1 1 1 1 2 1 2
0-12 0-13 0-14 0-15 0-16 0-17 0-18 0-19 0-20 0-21 0-22 0-23	thread guide plate holder washer stopper bracket thread guide hook 2-thread thread guide rear thread guide finger thread guide tube bushing thread guide tube thread guide tube clamp thread tension plate holder	0 0 0 0 0 0 0	0 0 0 0 0 0 0	1 1 1 1 1 1 2 1 2
0-13 0-14 0-15 0-16 0-17 0-18 0-19 0-20 0-21 0-22 0-23	holder washer stopper bracket thread guide hook 2-thread thread guide rear thread guide finger thread guide tube bushing thread guide tube thread guide tube clamp thread tension plate holder	0 0 0 0 0 0	0 0 0 0 0 0	1 1 1 1 1 1 2 1 2
0-14 0-15 0-16 0-17 0-18 0-19 0-20 0-21 0-22 0-23	washer stopper bracket thread guide hook 2-thread thread guide rear thread guide finger thread guide tube bushing thread guide tube thread guide tube clamp thread tension plate holder	0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	1 2
0-15 0-16 0-17 0-18 0-19 0-20 0-21 0-22 0-23	stopper bracket thread guide hook 2-thread thread guide rear thread guide finger thread guide tube bushing thread guide tube thread guide tube clamp thread tension plate holder	0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	1 2
0-16 0-17 0-18 0-19 0-20 0-21 0-22 0-23	thread guide hook 2-thread thread guide rear thread guide finger thread guide tube bushing thread guide tube thread guide tube clamp thread tension plate holder	0 0 0 0	0 0 0 0 0	1 2
0-17 0-18 0-19 0-20 0-21 0-22 0-23	2-thread thread guide rear thread guide finger thread guide tube bushing thread guide tube thread guide tube clamp thread tension plate holder	0 0 0 0 0 0	0 0 0 0	1 2
0-18 0-19 0-20 0-21 0-22 0-23	rear thread guide finger thread guide tube bushing thread guide tube thread guide tube clamp thread tension plate holder	0 0 0 0	0 0 0	1 2
0-19 0-20 0-21 0-22 0-23	thread guide tube bushing thread guide tube thread guide tube clamp thread tension plate holder	0 0	0 0 0	1 2
0-20 0-21 0-22 0-23	thread guide tube thread guide tube clamp thread tension plate holder	0	0	1 2
0-21 0-22 0-23	thread guide tube clamp thread tension plate holder	0	0	2
0-22 0-23	thread tension plate holder			
0-23		0	0	
	holder spool			1
0-24		0	0	1
	holder disc	0	0	2
0-25	holder spool spring	0	0	1
0-26	presser nut	0	0	1
2	bearing snap ring screw	0	0	2
9	261 (3 (27)	0	0	2
1		0	0	1
	crank washer	0	0	1
	crank adjusting pin washer	0	0	ī
	AN - WALTER FAIR FAIRFASTA	0	0	ı
	thread tension screw nut	0	0	1
2	thread tension screw	0	0	1
3	thread guide plate screw	0	0	2
7	thread guide plate screw	o	0	ī
8	thread guide finger set screw	0	0	î
7		0	0	3
	washer	0	0	1
0	thread guide hook screw	0	0	Î
9 1 7 8		cam set screw crank set screw crank washer crank adjusting pin washer crank adjusting pin nut thread tension screw nut thread tension screw thread guide plate screw thread guide plate screw thread guide finger set screw thread guide for 2-thread screw washer	cam set screw crank set screw crank washer crank adjusting pin washer crank adjusting pin nut crank adjusting pin nut thread tension screw nut thread tension screw thread guide plate screw thread guide plate screw thread guide finger set screw thread guide for 2-thread screw o washer	cam set screw  crank set screw  crank washer  crank adjusting pin washer  crank adjusting pin nut  thread tension screw nut  thread tension screw  thread guide plate screw  thread guide plate screw  thread guide finger set screw  thread guide for 2-thread screw  washer  0  0  0  0  0  0  0  0  0  0  0  0  0



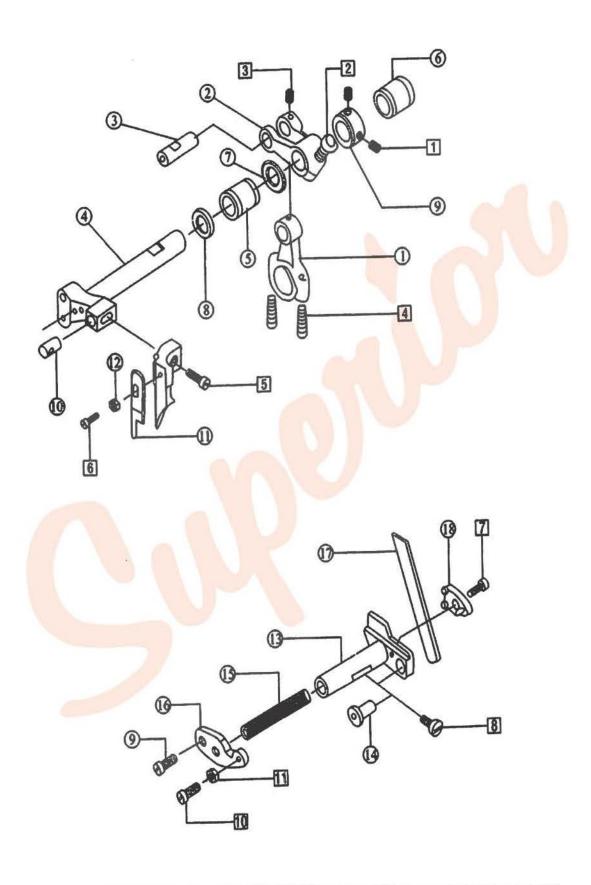
# K. Differential feed assemblies

ef. SO F	Part 80.	Yourse	Amt. Req.		
1	Part No.	Name	3线	4线	5线
1	M11 I	stitch length reglating shaft	1	1	1
2	M11 2	spring	1	1	1
3	M11 3	oil washer	1	1	1
4	M11 4	stitch length regulating cam asm	1	1	1
:5	M11-5	stitch length regulating block	1	1	1
6	M11-6	stitch length regulating block spring	2	2	2
7	M11 7	stitch length cam	1	E .	1
8	M11 8	stitch length regulating plate	1	1	1
9	M11 9	feed drive cam	1	i a	1
10	M11 10	feed cam spring	1	1	
11	MII II	feed cam pin	1	T.	1
12	M11 12	feed link	1	1	1
13	M11-13	feed rod rolling pin bearing	1	1	1
14	M11-14	feed crank	1	1	1
15	M11-15	differential link	_ 1	1	1
16	M11 16	differential crank	I I	1	1
17	M11 17	pin			1
18	MII 18	differential shaft bearing		T.	1
19	M11-19	oil seal		1	1
20	M11-20	snap ring	1	i	1
21	M11-21	spring	1	1	1
100	MI1-22	washer	1	î	1
200	M11-23	regalating block	i		1
	M11-24	washer	,	2	2
	M11 25	feed cam	1 1	1	0
	M11 26	washer			
	M11 27	differential regulating holder	1 1		
8114	M11 28	regulating screw	1 1	1	
	M11 29	regulating screw spring	1 1	1.	1.
	M11 30	differential regulating link	1 1	1	1
2000	5M11-31	crank link cam	1	1	1
	S096	differential link screw	0	0	1
	\$101	differential crank serew	1 0	1	1
	S028		2	2	2
- 1	W15	snap ring screw	1 1	1	1
	S01	washer	1	1	1
		washer	2	2	2
	S037 S012	differential positon screw	1	I.	1
	S034	spring screw	1 1	1	1
		differential set screw	1	1	1
	S079	screw	1	1	1
	S027	differential positop screw	1	1	1
	S032	differential positop screw	1	1	1
	S043	stitch length	4	4	4
	S008	feed cam regulating screw	1 1	1	1
	S011	feed cam screw	1	1	1
15	S040	screw	1	1	1



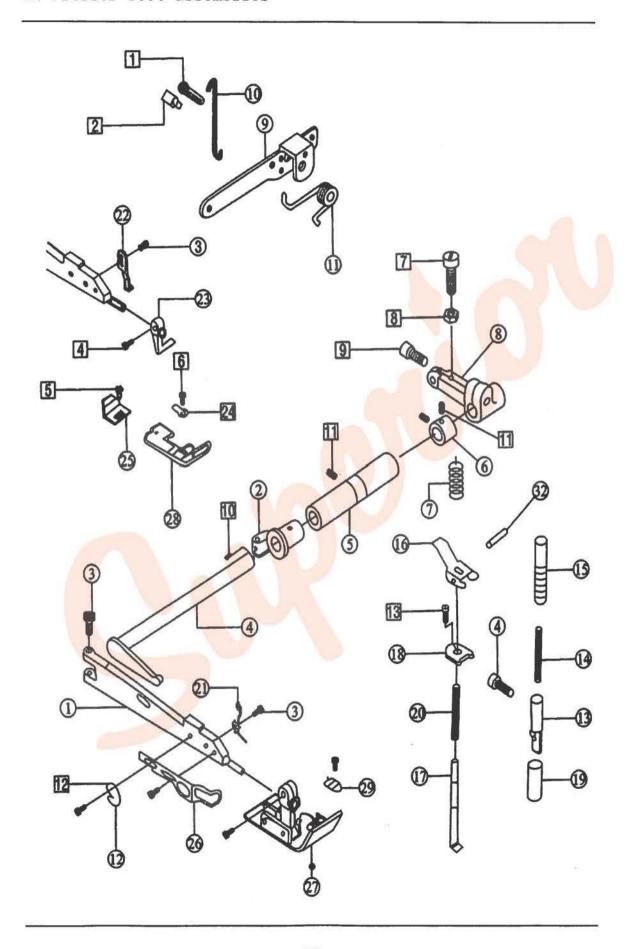
# L. Feed dog assemblies

f. NO Part	Part NO.	Name	Amt. Req.		
.1.110	rait no.	Name	3线	4线	5线
1	M12-1	dog link plate	1	1	1
2	M12-2	feed dog holder	1	1	1
3	M12-3A	differential feed dog holder	1	1	1
4	M12-4	feed dog lift slide block	1	1	1
5	M12-5	feed dog lift slide block shaft bearing	1	1	1
6	M12-6	snap ring	1	1	1
7	M12-7	differential feed slide block	1	1	1
8	M12-8	slide block eccentric shaft	1	1	1
9	M12-9	differential feed slide block eccentric washer	1	1	1
10	M12-10	slide block eccentric shaft bushing	1	1	1
11	M12-11	feed shaft	1	1	. 1
12	M12-12	feed shaft bushing(left)	1	1	1
13	M12-13	feed shaft bushing(right)	1	1	1
14	M12-14	feed regulating crank	1	1	1
15	M12-15	washer	1	1	1
16	M12-16	feed dog holder link	1	1	1
17	M12-17	feed dog holder link bushing		1	1
18	M12-18	differetial feed dog holder link bashing	2	2	2
19	M12-19	crank slide block cover	i	1	1
20	M12-20	crank slide block	1	1	ì
21	M12-21	feed regulating crank	1	i	1
22	M12-22	differential feed dog holder link	ı	1	1
23	M12-23	differential feed dog holder link bushing	i	i	i
24	M12-24	differential feed dog holder link bushing washer	1	1	î
25	M12-25	screw oil plate	i	1	i
26	M12-26	feed dog carrier connection rod	i	1	1
27	M12-27	sealing connecting ring	î.	1	1
28	M12-28	adjustable oil seal	2	2	2
29	M12-29	sealing connecting rod	1	1	1
30	M12-30	feed dog link ecentric shaft	i		0
	5M12-30	feed dog link ecentric shaft	0	0	0
31	M12-31	differential dog	1	, ,	1
(SIE)	5M12-31	differential dog	0	0	0
32	M12-32	assist feed dog	1		1
(T.M.)	5M12-32	assist feed dog	0	1	0
33	M12-33	main feed dog	1	0	1
-	5M12-33	main feed dog	0	0	0
1	S028	regulating bushing	1	0	1
2	S005	feed dog bushing screw	,	1	1
3	S024	screw	1		1
4	S100	main feed dog screw	1	1 2	1 0
5	S029	dog hloder link	2	2 2	2
6	S006	feed dog lift slide block screw	2	2	2
7	S101	feed shaft crank screw(right)	1	1 0	1
8	S012	crank screw(left)	2	2 5	2
9	S069	crank slide block cover screw	5	100	5
10	S034	tooth rorks screw	2	2	2
11	S046	tooth rorks screw	1	1	1
12	S031	screw	4	4	4
	N02	feed crank pin shaft nut	1	1	1



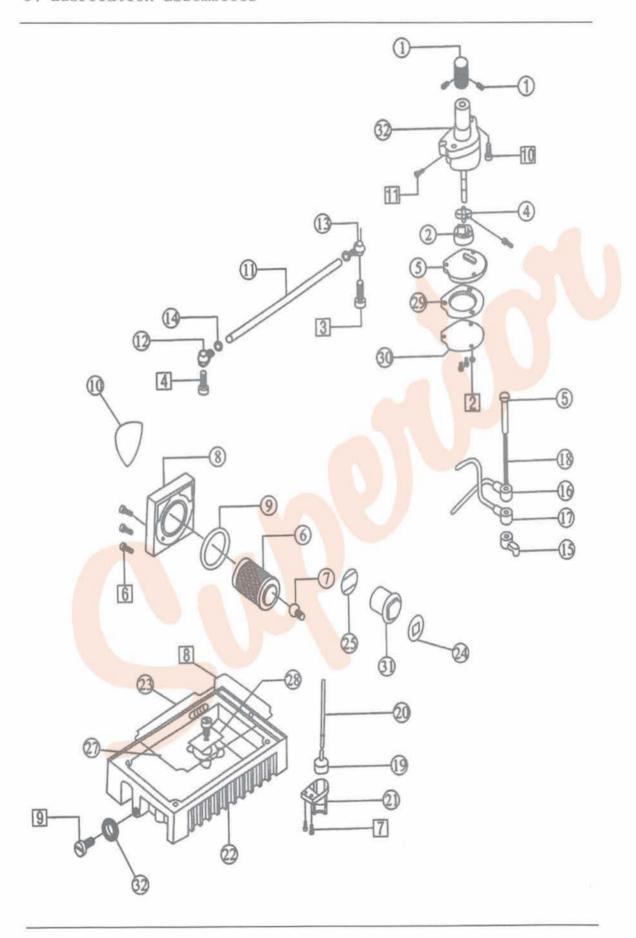
# M. Frimming assemblies

2 Mi 5M 3 Mi 4 Mi 5 Mi 6 Mi 7 Mi	Part NO.  13-1 13-2 M13-2 13-3 13-4 13-5 13-6	Name  upper knife driving connecting link upper knife crank upper knife crank crank pin upper knife frame rock shaft upper knife frame rock shaft bushing left	3线 I I 0 I	4线 I I 0 I	5线 1 0 1
2 Mi 5M 3 Mi 4 Mi 5 Mi 6 Mi 7 Mi	13-2 M13-2 13-3 13-4 13-5 13-6	upper knife crank upper knife crank crank pin upper knife frame rock shaft upper knife frame rock shaft	1	1	0
5 M1 6 M1 7 M1	M13-2 13-3 13-4 13-5 13-6	upper knife crank crank pin upper knife frame rock shaft upper knife frame rock shaft bushing left			
3 M1 4 M1 5 M1 6 M1 7 M1	13-3 13-4 13-5 13-6	crank pin upper knife frame rock shaft upper knife frame rock shaft bushing left	0 1 1	0	1
4 M: 5 M: 6 M: 7 M:	13-4 13-5 13-6	upper knife frame rock shaft upper knife frame rock shaft bushing left	1	1	100
5 M: 6 M: 7 M:	13-5 13-6	upper knife frame rock shaft bushing left	1	028	1
6 M	13-6	10 TANA CONTRACTOR CON		1	1
7 M			1	1	1
		upper knife frame rock shaft bushing right	1	1	1
0 11	13-7	washer	1	1	1
o m	13-8	upper knife holder	1	1	0
51	M13-8	upper knife holder	0	0	1
9 M	13-9	snap ring	1	1	. 1
10 M	13-10	upper knife holder pin	1	1	1
11 M	13-11	upper knife	1	1	1
12 M	13-12	washer	1	1	1
13 M	13-13	lower knife holder	1	1	0
51	M13-13	lower knife holder	0	0	1
14 M	13-14	lower knife holder bushing	1	1	1
15 M	13-15	lower knife holder spring	1	1	1
16 M	13-16	lower knife holder	1	1	1
17 M	13-17	lower knife	1	1	. 1
18 M	13-18	lower knife holder locking plate	1	I	1
1 S	057	snapring screw	2	2	2
2 S	010	upper knife crank set screw	1	1	1
3 50	043	upper knife crank pin screw	1	i	1
4   50	074	upper knife conneting link screw	2	2	2
5 S	046	upper knife holder screw	1	1	1
6 S	025	upper knife screw	1	1	1
7 5	036	lower knife holder locking plate screw	1	i	i
8 S	033	lower knife holder locking plate screw	1	1	1
9 5	045	lower knife snap plate screw	1	1	1
10 S	022	lower knife snap plate screw	1	1	î
	01	lower knife snap plate screw	1	i	1



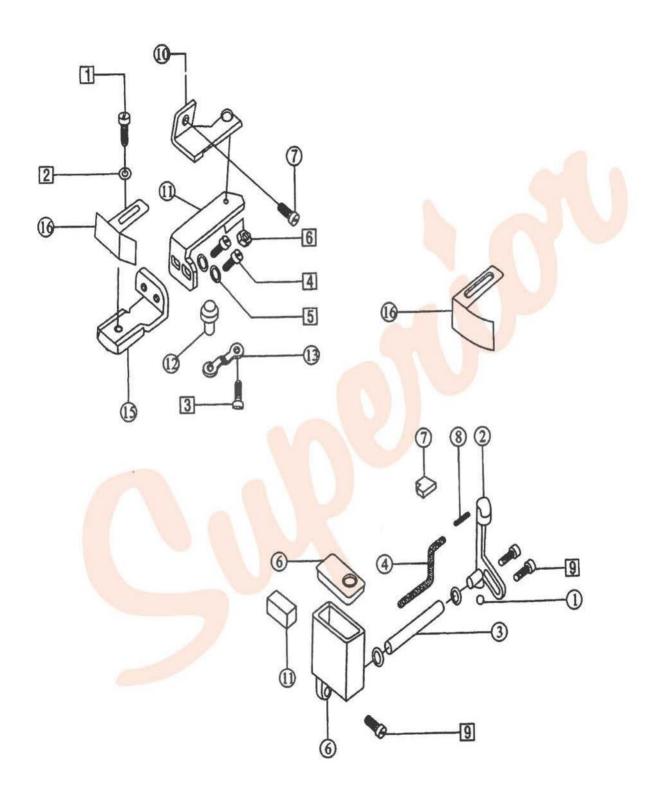
#### N. Presser foot assemblies

ef. NO	Part NO.	Name	Amt. Req.					
		,,,,,,,,	3线	4线	5线			
1	M14-1	presser foot holder	1	1	1			
200	M14-2	presser foot shaft bushing	1	0	1			
	M14-3	presser foot holder pin	1	1	0			
4	M14-4	presser foot holder shaft	1	1	1			
5	M14-5	presser foot shaft bushing	1	1	1			
6	M14-6	presser foot shaft snap ring	1	1	1			
7	M14-7	lever spring	1	1	1			
8	M14-8	presser foot crank	1	1	1			
-	M14-9	presser foot lifting lever	1	1.	1			
10	M14-10	hook	1	1	1			
11	M14-11	spring	1	1	1			
00000	M14-12	thread cutting knife	1	1	1			
100000	M14-13	presser bar	1.	1	1			
	M14-14	presser bar spring	4	4	4			
15	M14-15	presser regulating screw	1	1	1			
16	M14-16	presser foot lifting handle	1	1	1			
17	M14-17	presser foot lifting pin	1	1	1			
18	M14-18	presser foot lifting handle bracket	1	1	1			
19	M14-19	presser bar bushing	1	1	1			
20	M14-20	presser foot lifting spring	1	1	1			
21	5M14-21	presser foot spring	0	0	1			
	M14-22	presser foot holder conneting plate	1	1	1			
23	M14-23	presser foot holder	1	1	1			
	M14-24	presser foot spring	1	1	1			
25	M14-25	presser foot base spring	1	1	1			
-	M14-26	presser foot holder cover	1	1	1			
27	M14-27	presser foot form	0	1	0			
	M14-28	presser foot base	0	1	0			
29	M14-29	lifter presser foot	0	1	0			
30	M14-30	presser form	1	0	0			
31	5M14-31	presser form	0	0	1			
32	M14-32	presser foot lifting handle pin	1	1	1			
1	S059	screw	1	1	1			
2	S030	set screw	1	1	1			
3	S011	presser foot holder connecting plate screw	2	2	2			
4	S16	presser foot holder screw	1	1	1			
5	S004	screw	1	1	1			
6	S13	screw	1	1	1			
7	S068	presser foot crank screw	1	1	1			
8	N03	nut	1	1	1			
9	S010	presser foot crank screw	1	1	1			
10	S009	presser foot shaft snap washer screw	3	3	3			
11	S043	screw	1	1	1			
135	S071	thrad cutting knife screw	2	2	2			
13	S007	presser foot lifting handle screw	1	1	1			



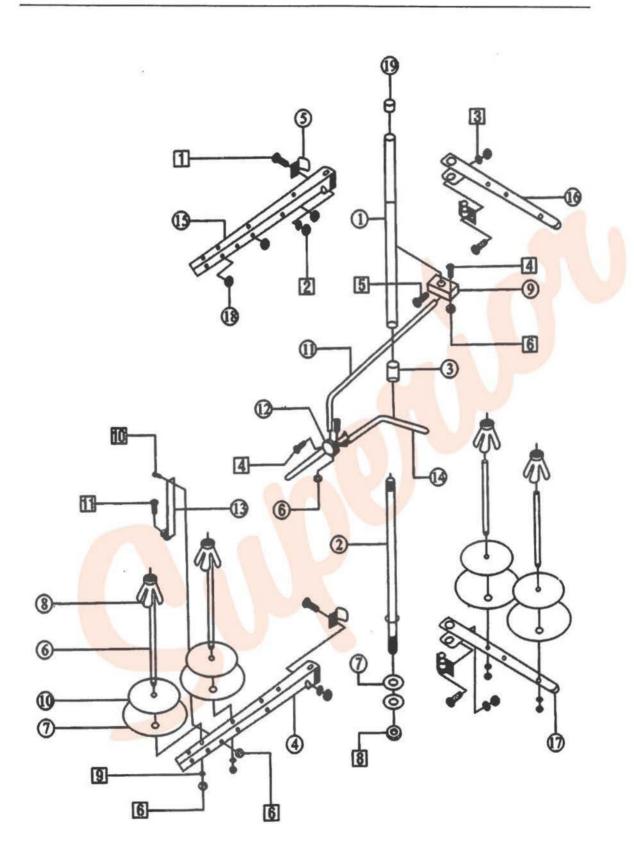
## 0. Lubrication assemblies

Ref. NO	Part NO.	Name	Amt. Req.				
.01.110	rart No.	ivame	3线	4线 5			
1	M15-1	oil pump worm gear	1	1	1		
21770	M15-2	oil pump rotator bushing	1	1	1		
3	M15-3	oil pump rotator shaft	1	1	1		
4	M15-4	oil pump rotator	1	1	1		
5	M15-5	oil pump cover plate	1	1	1		
6	Mi5-6	oil cleaner	1	1	1		
7	M15-7	oil cleaner joint	1	1	1		
8	M15-8	oil cleaner cover	1	1	1		
9	M15-9	oil clerner cover seal ring	1	1	1		
10	M15-10	indicating plate	1	4	1		
11	M15-11	oil tube	1	1	1		
12	M15-12	oil tube joint	1	1	1		
13	M15-13	oil tube joint	1	1	1		
14	M15-14	oil tube snap ring	4	4	4		
15	M15-15	lubricate bushing	1	1	1		
16	M15-16	upper screen	1	1	1		
17	M15-17	lower screen	1	1	1		
18	M15-18	regulating pin	1	1	1		
19	M15-19	oil show bracket	1	1	1		
20	M15-20	oil show cleaner link	1	1	1		
21	M15-21	oilshow cleaner guard	1	1	1		
22	M15-22	oil pan	1	1	1		
23	M15-23	oil pan washer	1	1	1		
24	M15-24	self-adhesive paper	1	1	1		
25	M15-25	oil dial	1	1	1		
26	M15-26	oil seal	1	1	1		
27	M15-27	oil pan magnet	1	1	1		
28	M15-28	oil pan magnet cover	1	1	1		
29	M15-29	oil screen holder	1	1	1		
30	Mj5-30	oil screen felt	1	ī	1		
31	M15-31	oil sight gauge	1	1	1		
32	M15-32	oil pump asm	1	1	1		
33	M15-33		I	1	1		
34	M15-34		1	1	1		
1	S057	oil pump worm gear screw	2	2	2		
2	S24	oil cleaner screw	3	3	3		
3	S086	oil tube joint screw	1	ì	1		
4	S063	oil tube joint screw	1	1	1		
5	S052	oil screen screw	1	1	1		
6	S039	oil screen cover screw	3	3	3		
7	S042	oil body finger screw	2	2	2		
8	S037	oil pan magnet cover screw	1	1	1		
9	S066	oil pump screw	1	1	1		
10	S048	oil pump screw	ī	1	1		
11	S065	oil pumps asm screw	1 7 1		1		



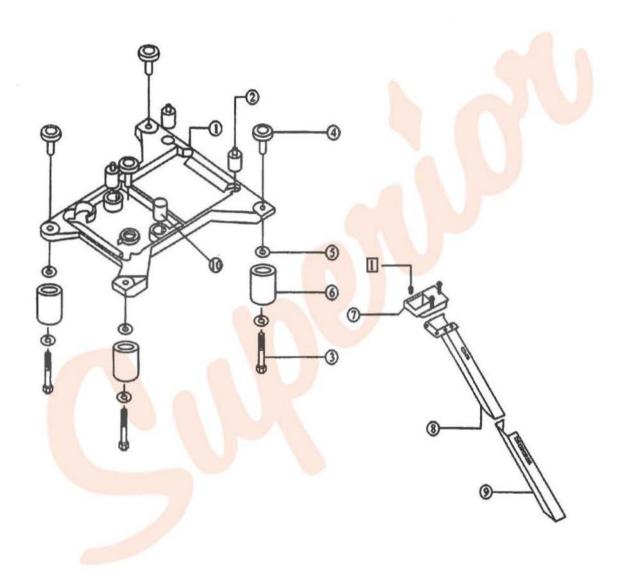
#### P. Feed snap assemblies

Min   Min	Ref. NO	Part NO.	N	Amt. Req.				
1       M16-1       oil seal       1       1       1         2       M16-2       needle cooler       0       0       0         3       M16-2       needle cooler       0       0       0         3       M16-3       oil tube bracker       1       1       1         4       M16-4       oil tube bracker       1       1       1         5       M16-7       oil tube bracker       1       1       1       1         6       M16-8       lower oil cover       1       1       1       1       1       1         6       M16-7       oil felt       0       0       1       1       1       0       0       1       1       1       0       0       1       1       1       0       0       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1<	er. NO	rart NU.	Name	3线		5线		
5M16-2       needle cooler       0       0       1         3 M16-3       oil tube bracker       1       1       1         4 M16-4       oil wick       1       1       1         5 M16-5       lower oil cover       1       1       1         6 M16-6       lower oil box       1       1       1         7 M16-7       oil felt       0       0       1         8 M16-8       oil wick       1       1       1         9 M16-9       cloth guide holder       1       1       1         10 M16-10       hinge plate       1       1       1         11 M16-11       oil felt block       1       1       1         12 M16-12       hinge pin       1       1       1         13 M16-13       hinge spring       1       1       1         14 M16-14       snap plate       1       1       1         15 M16-15       snap plate bracket       1       1       1         16 M16-16       snap plate       1       1       1         5M16-16       snap plate       1       1       1         2 W09       washer       1       1 <td>1</td> <td>M16-1</td> <td>oil seal</td> <td>1</td> <td>1</td> <td>1</td>	1	M16-1	oil seal	1	1	1		
3       M16-3       oil tube bracker       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1	2	M16-2	needle cooler	1	1	0		
1       M16-4       oil wick       1       1       1         5       M16-5       lower oil cover       1       1       1         6       M16-6       lower oil box       1       1       1         7       M16-7       oil felt       0       0       0         8       M16-8       oil wick       1       1       1         9       M16-9       cloth guide holder       1       1       1         10       M16-10       hinge plate       1       1       1       1         11       M16-11       oil felt block       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1		5M16-2	needle cooler	0	0	1		
5       M16-5       lower oil cover       1       1       1         6       M16-6       lower oil box       1       1       1         7       M16-7       oil felt       0       0       0         8       M16-8       oil wick       1       1       1         9       M16-9       cloth guide holder       1       1       1         10       M16-10       hinge plate       1       1       1         11       M16-11       oil felt block       1       1       1       1         11       M16-12       hinge pin       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1 <td>3</td> <td>M16-3</td> <td>oil tube bracker</td> <td>1</td> <td>1</td> <td>1</td>	3	M16-3	oil tube bracker	1	1	1		
6       M16-6       lower oil box       1       1       1         7       M16-7       oil felt       1       1       1       0         5M16-7       oil felt       0       0       1       1         8       M16-8       oil wick       1       1       1       1         9       M16-9       cloth guide holder       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1 <t< td=""><td>1</td><td>M16-4</td><td>oil wick</td><td>1</td><td>1</td><td>1</td></t<>	1	M16-4	oil wick	1	1	1		
7       M16-7       oil felt       0       0       0         5M16-7       oil felt       0       0       0       1         8       M16-8       oil wick       1       1       1       1         9       M16-9       cloth guide holder       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1 <td< td=""><td>5</td><td>M16-5</td><td>lower oil cover</td><td>1</td><td>1</td><td>1</td></td<>	5	M16-5	lower oil cover	1	1	1		
5M16-7       oil felt       0       0       1         8       M16-8       oil wick       1       1       1         9       M16-9       cloth guide holder       1       1       1       1         10       M16-10       hinge plate       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1	6	M16-6	lower oil box	1	1	1		
8       M16-8       oil wick       1       1       1         9       M16-9       cloth guide holder       1       1       1         10       M16-10       hinge plate       1       1       1         11       M16-11       oil felt block       1       1       1         12       M16-12       hinge pin       1       1       1         13       M16-13       hinge spring       1       1       1         14       M16-14       snap plate       1       1       1         15       M16-15       snap plate bracket       1       1       1       1         16       M16-16       snap plate       0       0       0       1       1       1         1       S018       snap plate       0       0       0       0       1       1       1         2       W09       washer       1       1       1       1       1       1         3       S021       hinge spring screw       1       1       1       1       1       1         4       S026       hinge screw       2       2       2       2       2 </td <td>7</td> <td>M16-7</td> <td>oil felt</td> <td>1</td> <td>1</td> <td>0</td>	7	M16-7	oil felt	1	1	0		
9 M16-9 cloth guide holder 10 M16-10 hinge plate 11 M16-11 oil felt block 11 M16-12 hinge pin 12 M16-13 hinge spring 13 M16-13 hinge spring 14 M16-14 snap plate 15 M16-15 snap plate bracket 16 M16-16 snap plate 1		5M16-7	oil felt	0	0	1		
M16-10	8	M16-8	oil wick	1	1	1		
11       M16-11       oil felt block       1       1       1         12       M16-12       hinge pin       1       1       1         13       M16-13       hinge spring       1       1       0         14       M16-14       snap plate       1       1       1         15       M16-15       snap plate bracket       1       1       1       1         16       M16-16       snap plate       0       0       1       1       1       0         5M16-16       snap plate       0       0       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1 <t< td=""><td>9</td><td>M16-9</td><td>cloth guide holder</td><td>1</td><td>1</td><td>ı</td></t<>	9	M16-9	cloth guide holder	1	1	ı		
12       M16-12       hinge pin       1       1       1         13       M16-13       hinge spring       1       1       0         14       M16-14       snap plate       1       1       1         15       M16-15       snap plate bracket       1       1       1       1         16       M16-16       snap plate       0       0       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1<	10	M16-10	hinge plate	1	1	1		
13   M16-13   hinge spring   1   1   1   1   1   1   1   1   1	11	M16-11	oil felt block	1	Î	1		
14       M16-14       snap plate       1       1       1         15       M16-15       snap plate bracket       1       1       1         16       M16-16       snap plate       0       0       1         5M16-16       snap plate       0       0       1         1       S018       snap late screw       1       1         2       W09       washer       1       1       1         3       S021       hinge spring screw       1       1       1       1         4       S026       hinge screw       2       2       2       2         5       W11       washer       2       2       2         6       N03       nut       1       1       1         7       S047       screw       1       1       1	12	M16-12	hinge pin	1	1	1		
15       M16-15       snap plate bracket       1       1       1         16       M16-16       snap plate       1       1       1         5M16-16       snap plate       0       0       1         1       S018       snap late screw       1       1       1         2       W09       washer       1       1       1       1         3       S021       hinge spring screw       1       1       1       1       1         4       S026       hinge screw       2       2       2       2       2         5       W11       washer       2       2       2       2         6       N03       nut       1       1       1       1         7       S047       screw       1       1       1       1       1	13	M16-13	hinge spring	1	1	0		
16       M16-16       snap plate       1       1       0         5M16-16       snap plate       0       0       1         1       S018       snap late screw       1       1       1         2       W09       washer       1       1       1         3       S021       hinge spring screw       1       1       1         4       S026       hinge screw       2       2       2         5       W11       washer       2       2       2         6       N03       nut       1       1       1         7       S047       screw       1       1       1	14	M16-14	snap plate	1	1.	1		
5M16-16       snap plate       0       0       1         1 S018       snap late screw       1       1       1         2 W09       washer       1       1       1       1         3 S021       hinge spring screw       1       1       1       1         4 S026       hinge screw       2       2       2       2         5 W11       washer       2       2       2       2         6 N03       nut       1       1       1       1         7 S047       screw       1       1       1       1	15	M16-15	snap plate bracket	1	1	1		
1       S018       snap late screw       1       1       1         2       W09       washer       1       1       1         3       S021       hinge spring screw       1       1       1         4       S026       hinge screw       2       2       2         5       W11       washer       2       2       2         6       N03       nut       1       1       1         7       S047       screw       1       1       1	16	M16-16	snap plate	1	1	0		
2       W09       washer       1       1       1         3       S021       hinge spring screw       1       1       1         4       S026       hinge screw       2       2       2         5       W11       washer       2       2       2         6       N03       nut       1       1       1         7       S047       screw       1       1       1		5M16-16	snap plate	0	0	1		
3 S021 hinge spring screw 1 1 1 1 1 1 4 S026 hinge screw 2 2 2 2 2 5 W11 washer 2 2 2 2 2 7 5 N03 nut 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1	S018	snap late screw	1	1	1		
4 S026 hinge screw 2 2 2 2 2 5 W11 washer 2 2 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	2	W09	washer	1	1	1		
5 W11 washer 2 2 2 2 6 N03 nut 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	3	S021	hinge spring screw	1	1	1		
6 N03 nut 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	4	S026	hinge screw	2	2	2		
7 S047 screw 1 1 1	5	W11	washer	2	2	2		
	6	N03	nut	1	1	1		
8 S037 needle cooler screw 3 3 3	7	S047	screw	1	1	1		
	8	5037	needle cooler screw	3	3	3		



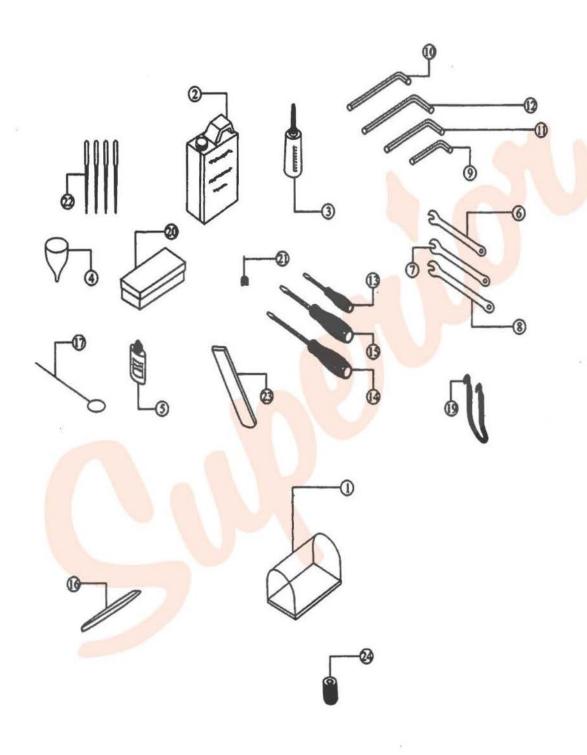
## Q. Thread spool assemblies

ef.NO	Part NO.	Name	Amt. Req.					
er. No	rait No.	Name	3线	4线	5线			
1	M17-1	upper thread column	1	1	1			
2	M17-2	lower thread column	1	1	1			
3	M17-3	bushing	1	1	1			
4	M17-4	long thread spool tray bracket	1	1	1			
5	M17-5	thread guide hook	4	4	4			
6	M17-6	spool pin	3	4	:5			
7	M17-7	spool tray	3	4	÷ 5			
8	M17-8	centering device	3	1 -	5			
9	M17-9	clamp plate	1	I _	1			
10	M17-10	spool tray cushion	3	1	5			
11	M17-11	thread guide connecting bar	1	1	1			
12	M17-12	thread guide joint	1	T I	t			
13	M17-13	thread stand holder	1	1	1			
14	M17-14	thread guide bar	1	II.	1			
15	M17-15	thread spool tray bracket	1	E	1			
16	M17-16	thread guide plate	1	r)	i			
17	M17-17	thread spool tray bracket	1	L s	1			
18	M17-18	thread guide hook	3	3	3			
19	M17-19	rubber seal	1	1	1			
1	S088	thread guide hook screw	4	4	4			
2	N06	thread guide hook screw	4	4	1			
3	W02	thread guide washer	4	4	4			
4	S075	clamp plate screw	3	3	3			
5	S051	clamp plate screw	1	1	1			
6	N04	nut	8	8	8			
7	W16	lower washer	2	2	2			
8	N05	nut	1	ī	1			
9	W05	nut	4	4	4			
10	S087	thread stand holder screw	1	1	1			
11	S089	thread stand holder join screw	1	i i	1			
				<u> </u>	3.53			
	1							
		and the second second						
		1						
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	N.	1						



## R. Plater row material assemblies

Ref. NO	Part NO.	Nome	Amt. Req.					
er. NO	rart NU.	Name	3线	4线	5线			
1	M18-1	machine head plate	1	1	1			
2	M18-2	head shockproof cusion						
3	M18-3	screw	4	4	4			
4	M18-4	screw	4	4	4			
5	M18-5	big washer	12	12	12			
6	M18-6	plate link bushing	4	4	4			
7	M18-7	row material trough bracket	1	1	1			
8	M18-8	row material trough(1)	1	1	1			
9	M18-9	row material trough(2)	1	1	1			
10	M18-10	head shockproof cushion	I		1			
1	S076	row material seat screw	7	7	7			
			AD	9				
*								
		1	1					



#### S, Accessories assemblies

Ref. NO	Part NO.	No.	Amt, Req.					
er. NO	rart NO.	Name	3线	4线	5线			
1	M19-1	machine head cover	1	1	1			
2	M19-2	oil can	1	1	Ĩ			
3	M19-3	notes oil	1	1	1			
4	M19-4	tundish	1	1	1			
5	M19-5	oil can/50cc	1	1	1			
6	M19-6	spanner	1	1	1			
7	M19-7	spanner	1	1	1			
8	M19-8	spanner	1	1	1			
9	M19-9	cross screw driver	1	1	1			
10	M19-10	cross screw driver	1	1	1			
11	M19-11	cross screw driver	1	1	1			
12	M19-12	cross screw driver	1	1	1			
13	M19-13	screw driver	1	1	1			
14	M19-14	screw driver	1	1	1			
15	M19-15	screw driver	- 1	1	1			
16	M19-16	tweezer	1	1	1			
17	M19-17	metal guide	0	0	1			
18				9				
19	M19-19	presser foot base chain	1	1	1			
20	M19-20	accessory box	1	1	1			
21	S009	thimble screw	1	1	1			
22	DCX27	needle	4	4	1			
23	M11-19	lower knife	1	1	1			
	M13-6	oil filter	1	1	1			
		**						
İ								

# **COMPONENTS FOR 747 MODE**

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MODE	PURPOSE	NO.OF THROAT PLATE	FE	OF ED OG	NO.OF DIFERENT LAL RATIO FEED DOG	1001	UPPER LOOPER	NEEDLE CLAMP	WAS HER	NEEDEL BAR SHAFT	LOWER LOOPER SHAFT	NO.OF NEEDLE
747-3- 505F1 -04	Front-concealed seam thin-middle-thick cloth	E784	D438	D674	H442	P152D-3	LP26	KG131-E	KJ10F	KF25-A	KJ09B-E	DC27#9
747-3- 504M1 -15	Crimpmg Seam thin cloth applicable to decoration of blouses and hand kerchiefs	E934	D438	D912	H442	PI52D-A	LP26	KG131-E	KJ10F	KF25-A	KJ09B-E	DC27#9
747-3- 504M2 -04	General sewing for thin-middle- thick cloth, applicable to trousers piperation	E800	D440	D095	H445	P253E-4	LP26	KG131-E	KJ10F	KF25-A	KJ09B-E	DC27#11
747-4- 514M2 -24	General sewing for thin-middle-thick cloth, shoulder and armpit sewing knitting underwear and women and chidren clothes		D440	D095	H445	P253E-4	LP26	KG142-E	KJ13F	KF26-A	KJ11B-E	DC27#11*2
747-5- 516M2 -35	General sewing for thin-middle-thick cloth, applicable to trousers bed-gown shirt	E982	D489	D502	H497	P504-A	LP26	KG153-E	KJ13F	KF26-A	КЛ11В-Е	DC27#14*2
747- 516M2 -55	General sewing for very thick cloth applicable to overalls blouses, side and shoulder seam sewing width lcm	E004	D489	D502	H500	P502-A	LP26	KG155-E	KJ13F	KF26-A	KJ11B-E	DC27#14*2
747-5- 516X2 -56	General sewing for very thick cloth applicable to side seam or inside crotch with 2- board presser-bar		D490	D502	H501	P960-A	LP38	KG155-E	KJ13F	KF26-A	KJ11B-E	DC27#18*2



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The description covered in this manual is subject to change for improvement of the commodity without notice

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