

Model 0797

UPPER AND LOWER FEED LOCKSTITCH SEWING MACHINE FOR MEDIUM AND HEAVY DUTY

OPERATION INSTRUCTION / PARTS MANUAL

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Operation instruction

Notice:

- 1. Parts design is subject to change without notice.
- 2. Only the professional can adjust and repair the machine except adjusting stitch length.

1.Main technical specifications

	0797			
on	Light & Medium weight			
wing Speed	2000spm			
ch length	8mm			
wing Capacity	8mm			
ressr foot litt	3.5-5.5mm			
	135x16DIA (#20~#23)			
By hand	8mm			
By knee	16mm			
	Auto-lubricating big rotating hook			
on	Auto lubrication			
ower	750W			
	ewing Speed ch length wing Capacity pressr foot litt By hand By knee			

2.Preparation

(1)Cleaning machine

Clean off the grease and dusts on the Surface of ma-chine with gasoline and soft cloth.

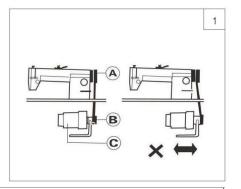
(2)Inspection

Before use a thorough inspection should be done upon the machine. Turn balance wheel slowly to see if there is any obstacle, collision and uneven resistance between parts. If there is, adjustment should be done before operation.

3.Installing the motor(Fig.1)

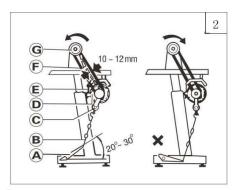
Align machine balance wheel belt groove(A) with motor pulley belt groove(B) by moving the motor(C) leftward or rightward. Be sure the belt is not touch with table.





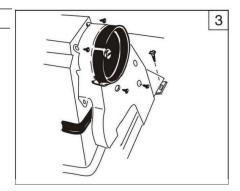
4. Connecting the clutch lever to the pedal(Fig.2)

- a. The optimum tilt angle of pedal with floor is approx 15 degree.
- b. Adjust the clutch of the motor so that clutch lever(C) and draw bar (B) run in line as Fig.6, the machine would have stable motion and long using.
- c. The machine balance wheel should rotate counterclockwise for normal sewing when view from opposite side of the balance wheel. The motor rotates in the same direction. The rotation can be reversed by reversing (turn over 180 deg.)the plug of the motor.
- d. Adjust the tension of V-belt F by moving the motor vertically. The proper tension of V-belt is a slack of 10~12mm when the belt is depressed (at the belt pan) by finger.



5.Installing belt guard(Fig 3)

The belt guard should be installed for safety.

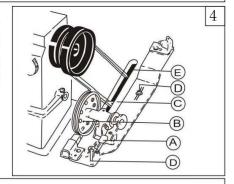


6.Installing the bobbin winder (Fig 4)

Align pulley(B) of the bobbin winder with the outside of the belt, and there should be a proper cleamess between them, so that pulley (B) can be contacted with the belt when stop latch thumb lever (A) is depressed, thereby the belt drives pulley (B) white the machine running, the bobbin winder should be parallel with belt slit (E) of the table, the fasten with two wood screw (D).

Note: If your sewing machine comes with built-

in bobbin winder, please forget this chapter



7.Lubrication (Fig 5)

A.Oil amount

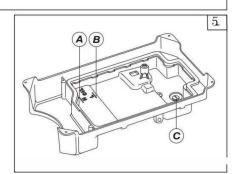
Oil amount must be oiled according to the mark of drip pan.Mark(A) is the highest situation, Mark (B) is the lowest situation, Note that oil amount couldn't the lower than mark (B), otherwise all parts of machine will appear heat and dead point for not gaining oil.

b.Oiline

In lubrication, HA-8 sewing machine oil or HJ-7 machine oil must be used. Before running, the machine must be oiled at the mark (A).

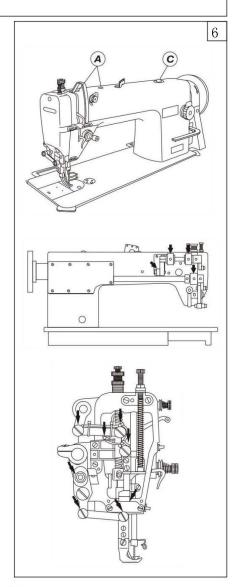
c. Cleaning

Turn off the screw plugs (C), clean up the dirty oil and the dust of drip pan, then fasten the screw plugs(C), add fresh oil



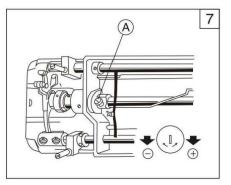
8.Trial run (Fig 6)

When the machine left out of operation for a quite long time and used again, remove the red rubber plug on top of the machine head, oil it thoroughly, the lift the presser foot and run at a low speed of $1000\sim1500\mathrm{spm}$, observe the splashing condition through oil window (c), as the lubrication is well, keep the running test at the low speed about 30 minutes, then increase the speed gradually, after months running to perfect its performance, then increase up to proper sewing speed.



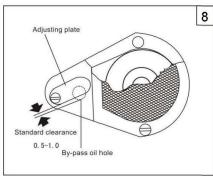
9. Rotating hook oil amount adjustment (Fig 7)

The hook oil amount can be adjusted by Screw (A). Turn it clockwise("+") to increase amount; counter-clockwise("-") to decrease. The oil amount is adjusted in the range of five turns of Screw(A): Tighten for more; Loosening for less.



10.Oil pump supply adjustment (Fig 8)

Generally no adjustment is for oil pump. When the machine runs at low speed, observe the oil screen. If no oil splashing, close the clearance.

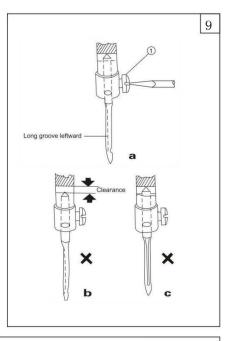


11.Installing the needle (Fig 9)

Turn the balance wheel to lift the needle bar to its highest point, loosen needle set screw 1, making the needle groove turn to the left side of an operator, fully insert the needle shank up to the bottom of needle socket, then tighten needle set screw 1.

Note: Fig.12(b) insufficient insertion

Fig.12(C) Wrong direction of groove

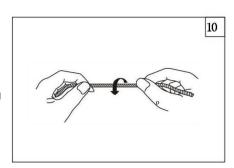


12. Coordination among the needle. the thread and the material (Fig 10)

The needle thread is left-twisted, the bobbin thread is left or right-twisted. Holding the thread, twist it with right hand in the direction of arrow shown in Fig 10, if it is tight, it is left-twisted, contrarily, it is right-twisted.

The Needle is 135X16DIA (DP×17DI #20-23) the needle number must be fitted for the materials. Sewing too heavy the weight of materials, the needle would be breaking and skipping stitch and thread

breaking for its too thin, if the needle is too thick, it would damage the clothes for its large needle hole. Therefor, the selection of needle and thread must be fit to the materials.

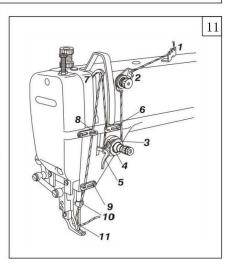


13. Threading the needle thread (Fig 11)

When threading the needle thread, raise the needle bar to its highest position, lead the thread from the spool and pass it in the order instructed.

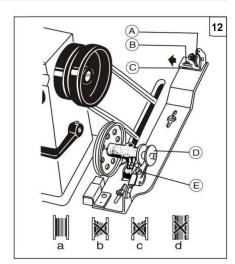
- (1) Lead the thread down through the three-eye thread guide ${\bf \hat y}$ on the top.
- (2)Pass down thru the left hole of thread retainer(2), then down thru the lower hole of thread Retainer (2)
 - (3)Pass down thru between the two tension disc3
- (4)Pass up thru the hook of thread take-up spring④. thru thread regulator ⑤, thru thread guide ⑥ and up thru the hole of thread take-up lever⑦.
- (5) Down thru thread guide (\$, \$), and needle bar thread guide (\$), then pass the thread from the left thru the eye of needle (\$), draw out the thread approx 100mm from the needle eye.

When drawing the bobbin thread, hold the tip of the needle thread by hand, turn the balance wheel to lower the needle bar and then to lift it to its highest position. Pull the needle thread and then The bobbin thread is drawn up put the tips of the needle and bobbin thread toward front under the presser foot.



14. Winding adjustment (Fig 12)

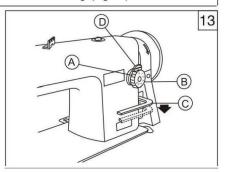
Note: If your sewing machine comes with builtin bobbin winder, please forget this chapter



15. Setting the stitch length and controlling the reverse sewing (Fig 13)

Stitch length can be set by turning stitch length regulating dial(A). The figures on the stitch length regulation dial plate (B) indicate the stitch length.

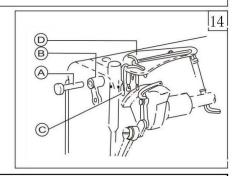
Reverse sewing can be obtained when feed reverse lever(C) is depressed and forward sewing can be restored automatically when feed reverse lever (C) is released.



16.Thread take-up oiling (Fig 14)

Thread take-up section adopts woolen thread oiling after long time of use, its function lost, so replace with a new one.

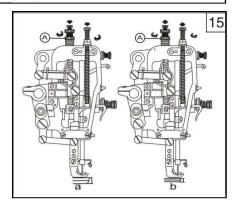
- ①Open the face plate, remove the pressure screw, lock nut and presser bar.
 - ②Remove Hinge(A) and Lever(B)
 - ③Draw out Oil Wick(C).
- 4 Loosen the wick fix screw on the arm top, and take out Set Plate(D).
 - ⑤Replace with a new one.
 - ®Installing is a reverse sequence.



17. Adjusting the pressure of presser foot (Fig 15.)

Pressure on presser foot is to be adjusted in accordance with materials to be sewn.Loosen lock nut(A). If heavy materials to be sewn, turn pres- sure regulating thumb screw clockwise as shown Fig.20(a) to increase the pressure .While light materials to be sewn, turn the pressure regulating thumb screw counter clockwise as shown in Fig.20(b) to decrease the pressure on presser foot, then tighten lock nut(A).

The pressure of presser foot is proper as the sewing materials can be fed normally.



18. Adjusting the thread tension (Fig 16, 17)

In general, the thread tension is to be adjusted in accordance with materials thread and others.

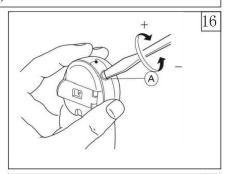
In practice, the thread tension is adjusted ac-cording to the stitches resulted to get the normal stitches.

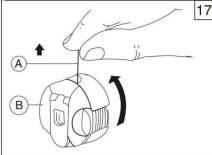
When adjusting the bobbin thread tension, turn bobbin case tension spring screw(A) clock-wise for more tension or turn the screw counter clockwise for less tension.

It is a common practice to check the bobbin thread tension. In case of polyester thread 50=, hold the end of the thread. If the bobbin case falls down slowly, the proper tension is obtained.

The needle thread tension should be

adjusted with refer to the bobbin thread tension. The needle thread tension can be adjusted by changing tension of the thread take-up spring, sewing range of the thread take-up spring, tension of tension disc, and the position of thread guide.





19. Adjusting the thread take-up spring (Fig 18, 19)

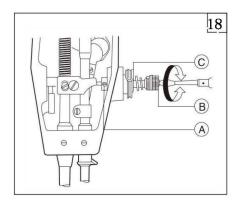
The normal sewing range of thread take-up spring is 5-8mm. For sewing light weight materials (short stitch), weaken the spring tension and widen the sewing range of spring, while for sewing heavy weight materials, strengthen the spring tension and shorten the sewing range of spring.

 Adjusting the thread take-up spring tension (Fig. 18).

Loosen tension stud set screw(A), turn tension stud (B) clockwise to make the spring get more tension, or turn the tension stud counter clockwise to make the spring get less tension, After adjustment, Be sure to tight tension stud set screw (A).

The method of adjustment:

Loose set screw (A) first, then to turn tension stud(B) counter clockwise to release the tension of

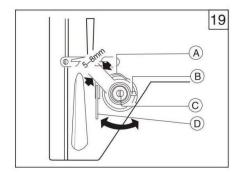


thread take-up spring(C) to zero, and to turn tension stud (B) clockwise until spring(C)just comes into contact with the stop slot on the thread take-up spring regulator, then to further turn tension stud (B) counter-clockwise by 1/2 turn After adjustment, tighten tension stud set screw (A).

2) Adjusting the sewing range of thread take-up spring (Fig 19)

Loosen set screw (B), turn tension complete (C)clockwise to increase the sewing range or turn tension complete (C) counter clockwise to decrease the sewing range.

Before delivery, the thread take-up spring is properly adjusted, Readjustment is needle only in the case of sewing special materials or with special thread.



20. Adjusting the tension of needle thread & bobbin thread (Fig20, 21, 22)

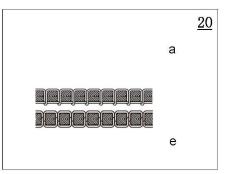
The position of the thread guide affects sewing quality, so it must be adjusted according to the materials to be sewn.

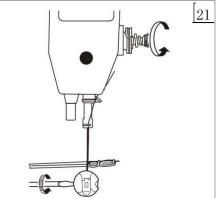
Thread guide position	Leftward	Center	Rightward
Material	Heavy	Medium	Light

Fig.20 shows the various type of stitch forms.

Normal stitch form should be as shown in Fig.20(a). When abnormal stitches occur with puck- e ring or thread breakage, the tension of needle thread and bobbin thread must be adjusted accordingly

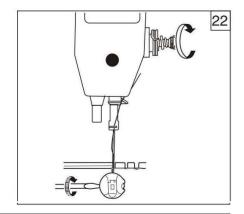
(a)The needle thread tension is too strong or the bobbin thread tension is too weak turn the tension regulating thumb nut counter clockwise to make the needle thread get less tension or tighten the bobbin case tension regulating screw with small plastic screw driver to make the bobbin thread get more tension(Fig.21).





(B) The needle thread tension is too weak or the bobbin thread is too strong, turn the tension regulating thumb nut clockwise to make the needle thread get more tension or turn the bobbin case tension regulating screw counter clockwise with small plastic screw driver to make the bobbin thread get less tension (Fig.22)

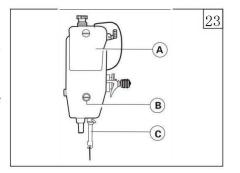
(c)Other abrormal stitches as shown in Fig.20 (d).(e),adjustment can be made which reference to the above methods.

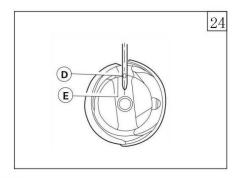


21. Timing between the needle and the rotating hook(Fig23、24、25、26)

1 Adjusting the position of needle bar

Turn the balance wheel to locate the needle bar(C)at its lowest position, remove the rubber plug in the face plate (A), then loosen the needle bar(C)connecting stud clamping screw (B) and move the needle bar(C)vertically to locate the timing position(The timing position of the needle bar is: when the needle bar at its lowest position, the center of needle eye(D) coincide with inside surface (E) of bobbin case holder as shown in Fig.24). Tighten clamping screw(B), plug the rubber plug.

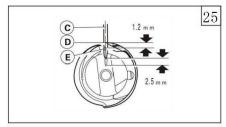


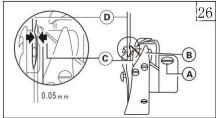


2. Adjusting rotating hook point timing with needle.

The motive relation between rotating rotating and needle affects the sewing quality. Standard timing relation is: turn the balance wheel to locate needle bar to its lowest position, and lift back 2.5 mm the rotating hook point(D) should be coincides with needle center line(C),and hook point (D)is 1.2mm above the upper edge(E)of needle eye.

When adjusting the rotating hook point timing also to note the clearance between notch bottom of needle (D) and hook point(C)of approx 0.05mm must be maintained.(Fig 26)





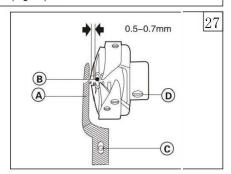
22.Removing and installing the rotating hook(Fig 27)

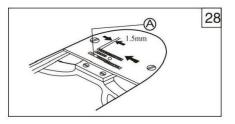
Lift the needle bar to its highest position, remove the throat plate, take down the needle and the bobbin case. loosen rotating hook bobbin case holder position bracket screw(C) and take down position bracket screw(C) and take down position bracket(A), then loosen set screw(D)of rotating hook to keep hook freely, turning around its axis, turn the balance wheel first to raise the feed bar to its highest position, at this time, take down the rotating hook slowly while turning it to keep away from the feed dog support. Installing the rotating hook can be done in reverse sequence.

The projecting flange of the position bracket (A) should be engaged in the notch(B) of the bobbin case holder, and maintain a clearance of 0.5~0.7mm between projecting flange top and the bottom of notch while installing.

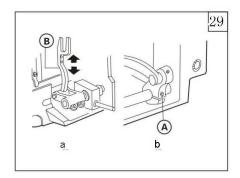
23.Installing feed dog (Fig28、29)

When feed amount is at the max. The front end of feed dog(A) is near the front of throat plate slot, the gauge between the two is 1.5mm. This is the standard position of feed dog.





To adjust the position of feed dog, move feed dog to the front end of throat plate, Loosen Screw A(See Fig 29b), move feed dog support B in the direction shown by arrow (Fig.29a) to adjust. After adjustment tighten Screw(A).



24.Feed dog horizontal Adjustment (Fig 30)

Feed dog is 0.8~1.2mm above the surface of throat plate horizontally.

When sewing condition requires tilting, adjust like this:

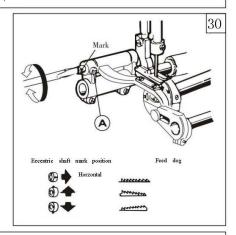
loosen Screw(A)

Press against the slot of eccentric shaft with a screwdriver to turn eccentric shaft left and right.

Tighten Screw(A).

The front of feed dog is higher, which can pre-vent perckering and no skipping.

The front of it is lower, which can prevent material sliding and no breakage of bobbin thread.

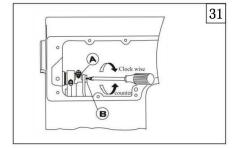


25.Stitch length error adjustment (Fig 31)

Loosen Screw (A), and turn stitch length adjusting cam(B).

Turn clockwise: forward sewing, stitch length enlarged; reverse sewing, stitch length shorten.

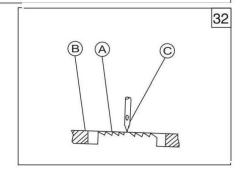
Turn counter-clockwise: forward sewing, stitch length shorten; reverse sewing, stitch length enlarged.



26. Feed timing adjusting (Fig 32, 33, 34)

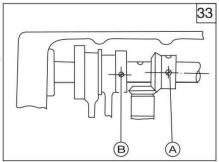
1. Standard position

Turn balance wheel to lower Feed dog (A) till it is horizontal with the surface (B) of throat plate, at the moment, the tip of needle (C) should be horizontal with the surfaces of throat plate and feed dog. Adjustment cam be done by adjusting the position of feed cam and feed dog lift cam.



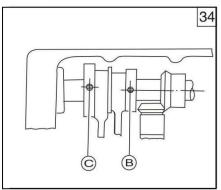
2. Installing feed dog lift cam (See Fig 33)

Open the back side cover, turn balance wheel by left hand counter-clockwise, take Screw A as for the standard, the center of Screw B is slightly a little Lower than the center of Screw A.



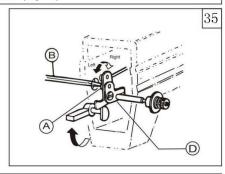
3. Installing feed cam (See Fig 34)

Continuously turn balance wheel, take Screw (B) as for standard, the center of Screw (C) is slightly a little higher than the center of Screw (B).



27. Adjusting the tension releasing mechanism (Fig 35)

The tension discs should be pushed apart to open when the presser foot is lifted. But the open timing of the tension discs can be adjusted as follows: Remove face plate and the rubber plug at rear side of arm and loosen screw (A) of the knee lifting lever (left), then the tension releasing cam can be moved leftward or rightward when the cam is moved rightward, it is later to open, otherwise it is earlier to open.



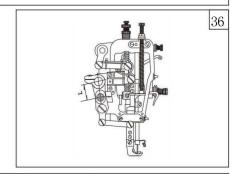
28.Upper feed adjustment (Fig 36)

During the sewing, the center gauge (L) between the walking foot sliding block and its shaft can be adjusted according to the differences of the friction coefficients of the friction coefficients of materials and the sewing process.

 $\label{eq:method: Increase L — the upper feed amount enlarged}$ enlarged

reduce L—the upper feed amount shorten

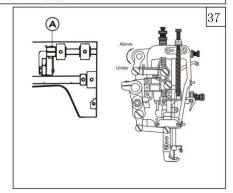
For special sewing requirements, for example, the upper layer of material needs more amount than the lower layer does, in this case, adjustment can be done in the range of above theory for operation.



29. Adjusting presser foot alternate lift mechanism (Fig 37)

During the sewing, the alternate lift amount can be adjusted according to the nature of material. In general sewing, the amount of walking foot is 5.5mm, and the presser foot lift amount is 3.5mm.

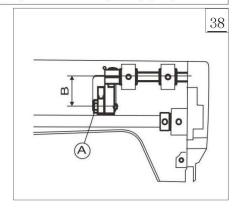
Method: loosen the screw A. turn presser foot front crank upward to increase the amount of walking foot; turn it downward to reduce the presser foot amount, the range of adjusting amount is not too large. After adjustment, tighten the screw.



30.Adjusting the lift amount of presser foot together with walking foot (Fig 38)

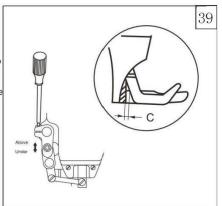
The lift amount of walking presser foot together with presser foot can also be adjusted slightly. When

adjusting, loosen screw (A) adjust its center distance B between the screw (A) and the presser foot lift shaft. The lift amount is increased as to shorten the center distance B, and the lift amount is decreased as to widen the center distance B.After adjustment, tighten the nut again.



31. Adjusting the clearance between presser foot and walking foot (Fig 39)

During sewing operation, for preventing the walking foot from striking on presser foot a proper clearance C of approx. 1.5mm should be maintained between them. When the clearance is too small or too big, necessary to adjust, loosen rear crank screw and turn the rock shaft, then the walking foot moves near the needle bar. When adjust, be sure to note the fixed number of the clearance

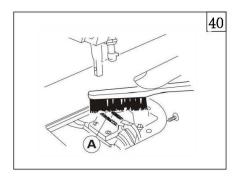


32. Periodical cleaning (Fig 40, 41, 42)

Clean the feed dog, the rotating hook, the bobbin case, the oil pump, filter screen and the like periodically according to customer's usage.

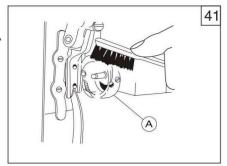
1. Cleaning the feed dog

Remove the throat plate, clean off all the dust and lint on the slit of the feed dog (A), the installing the throat plate.



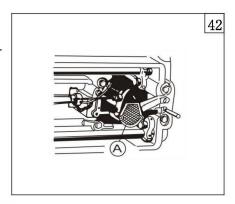
2. Cleaning the rotating hook

Clean off all the dust around the rotating hook(A), and clean the bobbin case with soft cloth.



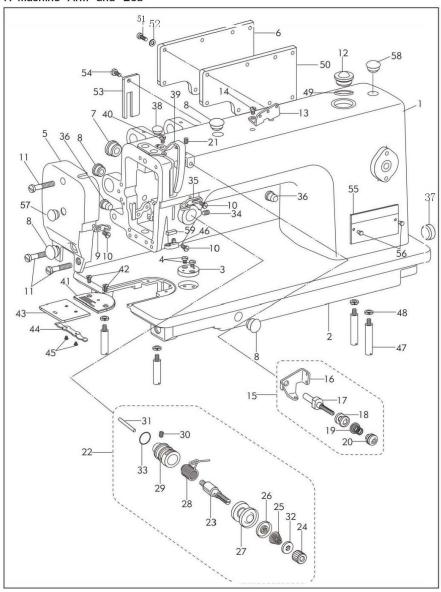
3. Cleaning the oil filter

Take off the oil filter, clean off the dust of filter screen (A) with gasoline.



Parts Manual

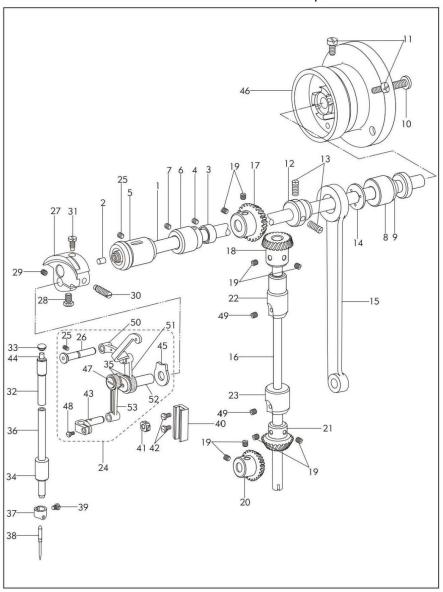
1, Machine Arm and Bed



1、Machine Arm and Bed

NES		Devit work or		ţ.	
No.	Part number	Name	0303	0303CX	Remark
1	242WF1-001	Arm	1		
	75WF1-001	Arm	_		
2	7WF4-001	Bed	1		
3	7WF4-005	Holder			
4	1WF3-025	Screw	2	2	
5	1KT1-002	Face plate		_	
6	241WF1-005	Rear cover(small)			
7	22T1-003C ₃	Rubber Plug(中19)	2	10	
8	22T1-003C4	Rubber plug(\$11.8)	3	ω	
9	22T1-003C	Thread finger	1		
10	22T1-003C ₆	Screw	3	3	
11	7WF4-004	Screw Oil screen complete	3	3	
12	14WF4-005				
13	36T2-004	Three-eye finger			
14	36T2-005	Screw			
15	36T2-006D	Thread tension complete			
16	36T2-006D ₁	Thread pass-by plate			
17	36T2-006D ₂	Screw			
18	22T1-009E ₃	Tension disc	2		
19	36T2-006D ₃	Spring		1	
20	36T2-006D	Nut			
21	20T1-004	Set screw			
22	33T4-008C	Thread tension complete			
	11WF4-006	Thread tension complete			
23	22T1=012F,	Screw			
24	22T1-012F ₂	Nut			
25	33T4-008C,	Spring			
0.0	11WF4-006A	Spring Thread tension complete			
26	22T1-012F ₄	Thread tension disc			
27	22T1-012F ₅	Thread take-up spring	2	2	
28	22T1-012F ₆				
29	22T1-012F,	Thread tension adjusting bracket			
30	22T1-012Fs	Screw Thread releasing pin			
31	22T1-012F,	Stopping plate			
32	22T1-012F ₀ 22T1-012F	0-type ring			
$\frac{33}{34}$	22T1-012F 22T1-013	Set screw			
		Thread finger			
35 36	22T1-014 22T1-015	Rubber plug(Φ8.8)		3000	
37		Rubber plug(\$\phi 27)		2	
38	22T1-016 22T1-017	Rubber plug(\$5.7)			
39	1KT1-003	Thread take-up lever guard.			
40	22T2-004	Screw			
41	33T4-012-A	Throat plate		1	
11	11WF4-004	Throat plate			
42	22T1-020	Screw	2	2	
43	7WF4-006	Sliding plate			
44	20T1-013F ₂	Spring			
45	20T1-013F ₃	Screw	2	2	
46	7WF4-015	Lower thread finger	1	"	
(50)	16WF2-013	Lower thread finger	*		
47	7WF4-013	Bed 1eg	4		
48		Washer	4	4	GB936
49	14WF4-006	Rear cover			MANUFACTURE CONTROL
50	241WF1-006	Seal gasket			
51	22T1-006	Screw	8	8	
52	22T1-007	Washer	8	8	
53	7WF4-011	Oil retaining plate	10000	100	
54	33T3-006	Screw			
55	241WF1-002	Trade mark plate			
	75WF1-001	Trade mark plate			
56		Rivet Rubber plug(\$19)	2	2	GB8272×5
57	7WF4-030	Rubber plug(\$19)			
58	13WF2-035			1.	
59	16WF2-014	0il Felt		1	

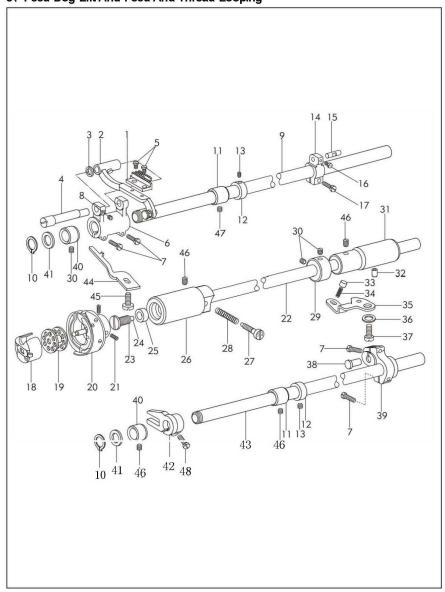
2, Arm Shaft and Vertical Shaft Needle bar Thread Take-up



2. Arm Shaft and Vertical Shaft Needle bar Thread Take-up

Qt. Qt.						
No.	Part number	Name	0303	0303CX	Remark	
1	70WF1-001	Arm shaft	1			
2	22T3-001A	Rubber plug	1	1		
3	22T3=00TK 22T3=002B,	Collar	1			
4	22T3-002B, 22T3-002B,	Screw	2	2		
0.00	4WF1-006	Front bushing	4	4		
5	4WF1-002	Middle bushing				
6	J0. 0. 40	Screw				
8	22T3-005	Rear bushing				
		Oil seal complete	1			
9	22T3-006F	5500.500 Sumos.585507 Novembrasio - Chapter Chapter	1			
10	22T3-008 22T3-007C ₂	Screw Screw	1 2	2		
11 12	36T3-003D,	Feed dog lift cam	1			
	36T3-003D	Screw	3	3		
13 14	36T3-004	Seperating piece for cam	1			
15	22T3-009D, C	Link	1			
	15WF1-001	Vertical shaft				
16		Bevel gear				
17 18	Z0A140379	Vertical shaft bevel gear(upper)				
	Z0A140380	Screw				
19	22T2-005B,	Rock shaft bevel gear	8	8		
20	Z0A140383	Vertical shaft bevel gear(lower)				
21 22	Z0A140382	Vertical shaft bushing(upper) complete				
23	2KT1-015	Vertical shaft bushing(lower) complete				
24	33T1-023P	Thread take-up lever complete				
25	Jo. 0. 5	Screw	2	2		
		Hinge pin				
26	33T1-002	1000 and 100	1			
27	4WF1-007A	Needle bar crank				
28	33T1-006C ₃	Screw				
29	22T2-005B,	Set screw				
30	33T1-006C ₂	Serew				
31	20T2-007	Set screw Needle bar upper bushing				
32	22T2-008	Rubble plug(\$\phi 8.8)				
33	22T2-011	Needle bar lower bushing				
34	34T1-001	Bearing				
35	19242/8	Needle bar	2	2		
36	33T1-017	Thread finger	1			
37	22T2-015	Needle			DP×17~23#(GC0303CX25#)	
38	0070 017	Screw			DP × 17 23# (GC0303CX25#)	
39	22T2-017	Rail				
40	33T1-012	Sliding block				
41	33T1-013	Screw	1 2	2		
42	22T2-019	Needle bar adaptor	-	4		
43	22T2-001A ₈	Felt	1			
44	22T2-010	Washer				
45	33T1-005	Wasner Balance wheel				
46	7WF1-001	Screw				
47	22T2-001A6 22T2-001A9	Screw	104			
48		000000000000000000000000000000000000000	1 2	2		
49	61-04-01/B308 33T1-003A	Screw Connector lever	4	4		
50	33T1-004B	thread take-up lever complete				
51 52	33T1-001	Crank				
53	33T1-014	Needle bar connector lever				

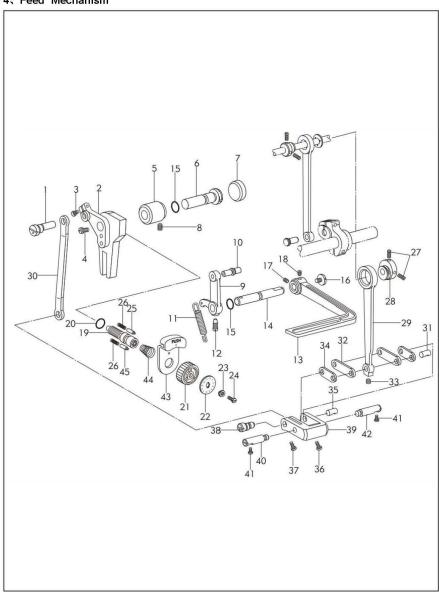
3, Feed Dog Lift And Feed And Thread Looping



3. Feed Dog Lift And Feed And Thread Looping

No.	Part number Name			t.	Remark
vo.	Part number	PEC/20204	0303	0303CX	Kemark
1	22T3-008	Feed dog	1		
	75WF4-001	Feed dog			
2	36T4-001Aat	Feed dog support complet	1		
3	51T5-001A ₆	Washer			
4	36T4-001A ₂	Eccentric shaft		1	
5	J0. 0. 50	Screw	2	2	
6	4WF2-002	Feed dog support crank	1	1	
7	61-04-01/B504	Screw	4	4	
8	22T2-019	Screw		1	
9	7WF2-004	Feed shaft	1	1	
10		Stop ring	2	2	GB894, 115
11	7WF2-003	Feed shaft middle bushing	2	2	
12	22T3-002B	Collar	2	2	
13	22T3-002B ₂	Screw	4	4	
14	4WF2-006	Feed shaft rear crank	-	1	
15	82T2-003Cad	Link pin		10,000	
16	36T5-008E ₅	Screw		1	
17	22T6-008D ₃	Tension screw		-	
18	33T1-028R	Bobbin case complete	1		
10	11WF4-007	Bobbin case complete	-		
19	33T1-027	Bobbin	1		
20	33T1-018J	Hook complete	1		
20	11WF4-008	Hook complete	1	1	
21	33T1-018J ₃	Hook screw	3	3	
22	36T4-008D.	Rock shaft.		1	
23	22T4-001Aai	Screw			
24	22T4-001Am ₂	Plug			
25	22T4-003	0il seal			
26	4WF1-005	Front bushing			
27	22T4-005	Screw			
28	22T4-006	Spring			
29	22T4-002B1	Collar	1		
30	J0. 0. 35	Screw	3	3	
31	4WF1-004	Rear bushing	3	1	
32	22T4-007C ₂	0il tube			
33	36T4-015	Plunge		1	
34	30/20/20/20/	Spring		1	
35	36T4-016 22T4-010	Stopper		1	
36	BEIT VIV	Washer		1	CD09.6
37	22T9-006	wasner Screw			GB936
38	2216-007	Hinge pin			
39	68WF3-011	Feed dog lift rear crank	14		
40	7WF2-002	Feed shaft front bushing	$\frac{1}{2}$	2	
40	51T5-013	Washer	2	2	
42	36T4-018Ho1	Feed dog lift fork		4	
44	75WF4-003	Feed dog lift fork	1		
40		Shaft for feed dog lift fork			
43	7WF2-001	Hook set bracket			
44	33T1-029			,	
45	22T4-015 J0. 0. 5	Screw Serew		1	
46	3F8	Screw	4	4	
47	J0. 0. 40 22T6−008D₃		1	1	
48	2210-000D3	Screw	1	1	

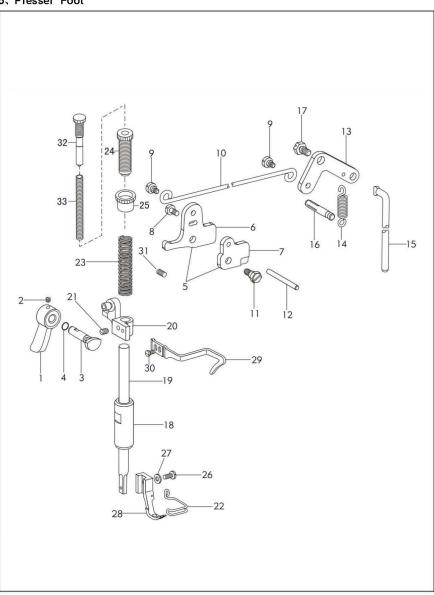
4. Feed Mechanism



4. Feed Mechanism

Ningree		۵	t.	
Part number	Name	0303	0303CX	Remark
2-012	Link pin	1	1	
F2-012	Stitch length bracket	1		
VF4-002	Stitch length bracket	-		
T2-031	Screw			
Γ5-010D	Screw			
F1-003	Bushing			
Γ5-004	Shaft for stitch length bracket			
T5-003	Rubber plug(\$\phi 20)			
0.5	Set screw			
2-009	Reverse feed lever crank		1	
	Shaft for block			
T3-002	Spring			
Γ5-013	Screw			
₹2-007A	Reverse feed lever			
2-010	Pin shaft			
	0-type ring			0-type ring 6.3×1.8G GB3452.1
Г5-010D,	Tension screw			
72-011	Set screw			
Γ5-010D ₄	Screw		1	
Г5-007D,	Screw bolt for stitch length			
Γ2-030-A	O-type rubber ring		1	
Γ5−007D₂	Dial cup			
72-004A	Dial face			
₩F4-004	Dial face			
15-007D	Screw bushing			
Γ5−007D₅	Screw		1	
Γ5-012	Stop pin		1	
r5-009	Spring	2	2	
Γ3−003D₂	Screw	3	3	
Γ5-008E,	Feed cam	1	1	
F2-009A	Feed link			
² 2-009B	Stitch adjusting link			
Γ2-003C, ao-1	Pin	1		
Γ5−008E₄Ho₂	Link	2	2	
Γ5-008E5	Screw	1		
₩F1-060	Screw		1	
Γ5−008E₄Ho	Link	2	2	
Γ5−008E ₆	Pin for link		1	
Г5-008E,	Screw		1	
Γ5−008E ₈	Screw			
Г5-008E,	Link eccentric shaft		1	
Γ5-008E ₁₀	Stitch length adjusting crank			
WF4-006	Stitch length adjusting crank			
1-002	Set pin(left)			
Γ6−008D₃	Screw	2	2	
₹1-001	Set pin(right)	1	1	
2-005	Push lever		1	
Γ5-011	Spring		1	
F2-006	Pin	1	1	
		i contract	i comme	1

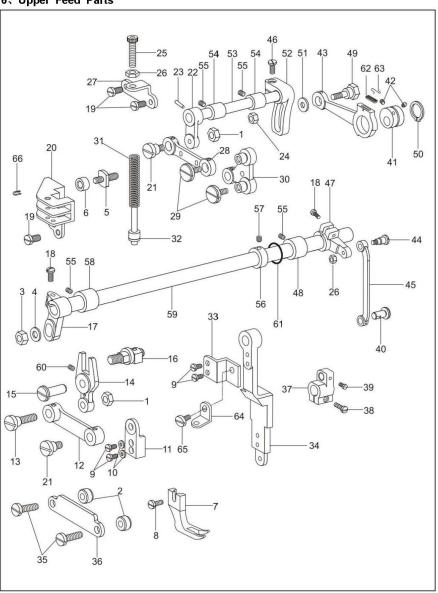
5. Presser Foot



5, Presser Foot

No.	Danit wombar	Name		t.	Damani
No.	Part number	Name	0303	0303CX	Remark
1	33T3-003	Presser foot lift bar	1.	1	
2	22T1-011	Screw	1	Ĭ	
3	1KT4-005	Presser bar lift cam	1	1	
4		0il seal	1	1	0-type ring4.5X1.8G GB3452.1-92
5	22T7-004B,	Knee lifter lever(left)complete	1	Ĭ	
6	22T7-004B。	Lever(left)	1	1	
7	22T7-004B	Thread releasing cam	1.	1	
8	22T7-004B。	Screw	1.	1	
9	22T7-004B ₂	Screw	2	2	
10	1KT4-004	Knee lifter drawing bar	1	1	
11.	22T7-005A	Screw	1.	Ī	
12	35T3-305	Thread releasing lever	1.	1	
13	22T7-007C;	Knee lifter lever(right)	1	1	
14	22T7-007C,	Spring	1.	1	
15	4WF3-001	Connecting rod	1	1	
16	22T7-008	Pin	1	1	
17	22T7-005B	Screw	1	1	
18	34T3-305	Bushing for presser bar	1	1	
19	241WF5-001	Presser bar	1	i	
20	7WF3-001	Guide for presser bar	1	ī	
21	22T1-013	Screw	1	i	
22	7WF3-004	Finger guard	1	1	
23	20T4-002	Sping	1	1	
24	233WF6-002	Screw	1.	ī	
25	233WF6-003	Nut	1.	ī	
26	22T7-015	Screw	1.	1	
27		Washer	1.	1	GB/T8484
28	7WF3-003	Presser foot	1.		
	11WF3-001	Presser foot		1	
29	7WF3-002	Thread guide	1.	1	
30	33T3-006	Screw	1.	1	
31	61-04-01/B308	Screw	1	1	
32	233WF6-004	Adjusting screw	1	1	
33	233WF6-005	Adjusting spring	1	1	
-	A CASAN ESCRIPTION				

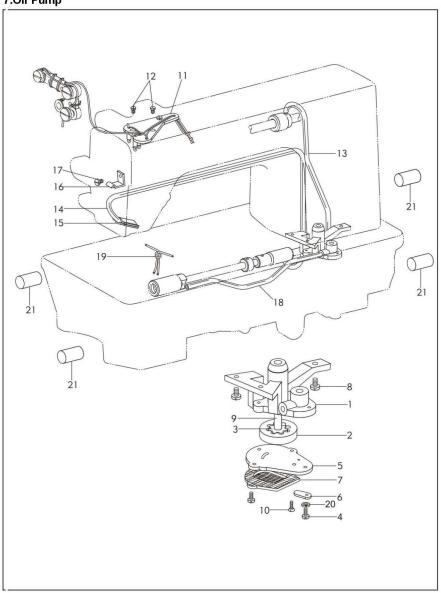
6. Upper Feed Parts



6. Upper Feed Parts

No.	Part number	Name	Q	t.	Remark
INO.	Part number	Name	0303	0303CX	Remark
	7WF5-001	Nut	10	12	
2	7WF5-002	Shim	10	13	
3	7WF5-003	Nut			
4	141 0 000	Washer			GB/T956
5	7WF5-004	Guide shaft			GD/ 1930
6	7WF5-005	Needle of bearing			
7	7WF5-006	Walking foot			
4.	11WF5-001	Walking foot			
8	61-04-01/B316	Screw			
9	7WF5-008	Screw		4	
10	1#15 006	Washer			anaa 4
11	7WF5-009	Holder for walking foot bar		2	GB934
12	7WF5-010	Link of walking foot			
	7WF5-011	Screw			
13					
14	7WF5-012	Fork lever			
15	7WF5-013	rin Crank shaft complete			
16	7WF5-014A				
17	233WF5-023	Front crank	4		
18	16WF3-031	Screw	1.1	2	
19	22T2-019	Screw		4	
20	7WF5-018	Guide plate		1	
21	7WF5-019	Screw	2	2	
22	7WF5-020	Crank			
23		Pin			GB/T1174×20
24	7WF5-050	Nut			
25	7WF5-021	Screw			
26	7WF5-022	Nut	2	2	
27	7WF5-023	Bracket for adjusting screw		_	
28	7WF5-024	Link		1	
29	7WF5-025	Screw	2	2	
30	7WF5-026	Presser foot feed crank		2	
31		Spring			
	81WF6-003	Guide pin			
32	81WF6-004	Set plate			
33	241WF3-001	Walking foot lever			
34	7WF5-030				
35	22T6-008D₃	Screw		2	
36	7WF5-031	Presser plate			
37	5WF4-002	Idde crank			
38	61-04-01/B504	Screw			
39	36T5-008E,	Pin screw Connecting pin			
40	5WF4-001	Connecting pin			
41	7WF5-032	Eccentric cam			
42	22T2-005B ₃	Screw			
43	7WF5-034	Link complete			
44	7WF5-037	Screw			
45	7WF5-038	Link			
46	7WF5-039	Screw			
47	241WF3-003	Rear crank			
48	241WF3-005	Busing			
	7WF5-042	Screw			
49	1 m1 0 = 0 42	Screw Split ring			SDOOT 1 OF
50	##### 0.40	Washer			GB894.1 25
51	7WF5-049				
52	7WF5-043	Link adjusting crank Presser foot lift shaft			
53	7WF5-044	Bushing			
54	7WF5-045	100		2	
55	61-04-01/B308	Screw	3	3	
56	22T3=002B ₁	Collar			
57	22T3-002B₂	Screw	2	2	
58	1KT2-004	Front bushing	-		
59	241WF3-004	Swing shaft			
60	7WF5-048	Screw			
61	33T2-030-A	0-type ring			
	7WF5-035	0il Felt			
		Spring			
62	1WE5-024				
63	1WF5-024	201-010-010-0			
	1WF5-024 241WF3-002 233WF5-028	Bracket Screw	н		

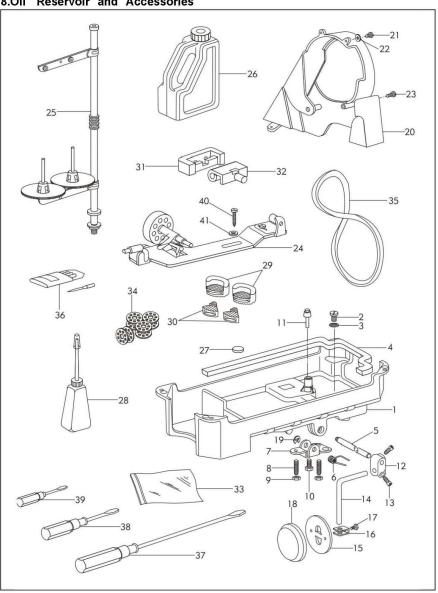
7.Oil Pump



7.Oil Pump

No.	Part number	Name	0303	0303CX	Remark
1	15WF4-003	Oil pump	ī	1	
2	15WF4-006	Big gear for oil pump	1	1	
3	15WF4-007	small gear for oil pump	1	1	
4		Screw	3	3	GB/T67 M3×10
5	15WF4-004	Cover for oil pump	1	1.	
6	22T8-007	Adjusting plate for oil pump	1	1.	
7	22T8-008A	Filter complete	1	1.	
8	22T8-009	Screw for oil pump	3	3	
9	15WF4-005	Shaft for oil pump	1	1	
10		Screw	2	2	GB/T68 M3×10
11	7WF4-016	Oil wick set plate complete	i	1.	
12	22T8-012	Screw	2	2	
13	22T8-013D	Oil pipe complete for upper shaft	1	1	
14	22T8-014	Oil return pipe	1	1.	
15	22T8-015	0il felt	1	1.	
16	22T8-016	Oil return pipe clamp	1	1	
17	20T4-006	Screw	1	1	
18	4WF4-005	Oil pipe complete for lower shaft	1	1	
19		0il wick	1	1.	
20		Washer	1	1.	GB934
21	7WF2-013	0il feilt	4	4	

8.Oil Reservoir and Accessories



8.Oil Reservoir and Accessories

No.	Part number	Name	0303	t. 0303CX	Remark
1	4WF5-001	0il reservoir	1	1	
2	22T9-001A ₂	Screw	1	1	
3	22T9-001A₃	Washer	1	1	
4	2KT9-008	Gasket	1	1	
5	22T9-001A ₆	Hinge pin		1	
6	22T9-001A,	Spring	1	1	
7	22T9-001A ₈	Knee lifter stop bracket	1	1	
8	22T9-001A,	Screw	2	2	
9	22T9-001A	Nut	2	2	
10	22T9-036	Screw	1	1	
11	4WF5-002	Knee lifter prop bar	1	1	
12	22T9-003B₃	Connector	1	1	
13		Screw	Per1	Per1	GB/T5781 M6×12/M6×20
14	22T9-003B ₂	Bent rod	1	1	
15	22T9-003B;	Be 11	1	1	
16	22T9-003B ₆	Bell bracket	1	1	
17	22T9-003B,	Screw	1	1	
18	22T9-003B。	Pat	1	1	
19		Split stop ring	1	1	GB8969
20	1KT6-001	Belt guard complete	1	1	
21		Screw(small)	2	2	GB/T67 M4×8
22		Washer	2	2	GB/T97. 14
23		Screw(big)	2	2	GB/T67 M5×12
24	S14420020	Thread winder complete	1	1	
25	14F0-00	Spool stand complete	1	1	GXT-2C
26	1F-012	0il tank	1	1	GAJ 2C
27	22T9-012	Magnet	1	1	
28	33TF-011	0il pot	1	1	
29	1KT5-004	Cushion(big)	2	2	
30	1KT5-003	Cushion(small)	2	2	
31	22T9-007F	Rubber coat	2	2	
32	22T9-007F ₂	Hinge	2	2	
33	33TF-010	Parts bag	1	1	
34	33T1-027	Bobbin	5	5	
35		V-type belt	1	1	V-type M39
36		Needle	1bag	1bag	DP×1723#(GC0303CX 25#
37	33TF-012	Screwdriver(big)		1	
38	33TF-013	Screwdriver(middle)	1	1	
39	33TF-014	Screwdriver(small)	1	1	
40	33.1. 322	Wood screw	4	4	GB5282 ST4. 8×19
41		Washer	2	2	GB/T956(中14)