

LP 9933R

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spare parts & instruction 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.

[Brief introduction

This machine adopts sliding lever thread take-up vertical rotating hook, precise gear for driving arm shaft and bed shaft. And it is easy to operate with knob type stitch regulator and reverse lever. And it is also has a wide workspace and easy to operate with 178mm post bed and 13mm height of presser foot lift by knee. The machine has big needle bar stroke, good sewing heavy-duty ability, smooth running, small noise simple structure and easy maintenance. It is widely used on sewing leather shoes, sports shoes, bag, glove, cap and other similar articles.

II Main specification

Max.Speed Stitch length Needle bar stroke		2000s.p.m	
		0~4mm	
		33.4mm	
Thread take-up	lever stroke	61.5mm	
Presser foot	By hand	7mm	
lift height	By knee	13mm	
Needle		DP×5 12#~20#	
Rotating hook		Vertical hook	
Lubrication s	ystem	Lubricated by hand	

III Installation

1.Installing the machine head

Install the hinge(A) onto the bed of machine head and tighten it by screw(C). Then install the hinge (B) into the groove of the table and tighten the screw(D). After that, install the machine head into the table properly.



2.Installing the motor

(1)Fix the motor on the bottom of the table by screw, washer and nut.

(2)Align the groove of the machine balance wheel and the motor, then tighten the screw.

(3) Install the power switch, and put throuth the power to confirm the forward running of machine.
(4) The tension of belt can be adjusted by moving the motor upward or downward. The proper tension of belt is slack of 10~20mm when the belt is depressed by finger.



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3.Installing the thread winder

Align pulley(A)of the thread winder with outside of the belt(B), and there should be a proper clearance between them. And be sure there is a proper pressuer between pulley of thread winder and belt when press the winder vibrating lever(C)down. Meantime, the thread winder should be parallel to belt slid(D) of the table.

4.Connecting the clutch lever with pedal(1)Align the draw bas of the pedal and clutch leverby adjusting the position of pedal.

(2)The optimum tilt angle of pedal with floor is 25~30 degree.

5. The installation and adjustment of knee lifter device

Install the knee lifter correctly at the mark of gable bottom shown as Fig.5.

(1)Put the support ① on the mark of table bottom.(2)Fix the support on the table with the wood-screw(2).

(3)Install the knee lifter lever (3) and then put the spring (4), knee lifter crank (5), connecting rod joint (6), knee lifter position assemble (7) on to the knee lifter lever orderly.(9)

(4)Ensure every parts be on their own position, and then tighten the screw.

(5)Insert the knee lifter bar (8) into the connecting rod joint (6). Then put the pat assembly on the knee lifter bar.

(6)Insert one side of the spring into the hole of the support ①, another side of the spring be putted on the knee lifter lever.

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(7)Ensure the knee lifter device could work freely after installation.

(8)Put the machine head on the table. Install the knee lifter connecting rod and adjust the parts according to the position of connecting rod joint.

Adjust the position of knee lifter bend lever ③ and crank roller ① as shown in Fig.7. Then tighten the screw.



6.Installing the oil pan

Fix the oil pan on the table with the screw and ensure the oil pan doesn't touch with the knee lifter device.



7.Installing the spool stand

Spool stand must be located at the right back of the table. Push machine head over and ensure machine head doesn't touch with the spool stand. Then tighten the nut(C).



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8.Installing the cushion

Ensure a smooth running, so the cushions should be fixed on four installation position correctly.

(1)There are four installation positions on the table. (Radius=20mm, Height=13mm)

(2)Fix the four cushions on the installation position by screw.



IV Preparation

1. Cleaning the machine

(1)Remove the grease and dust coated on the machine head with clean soft cloth.

(2)Turn the balance wheel by hand to see if there is running abrasion parts collision, uneven resistance and abnormal noise. If any those situations exist, adjustment must be made accordingly before trial run.

2. Lubrication

Add some oil into the oil hole of the machine head (1)Take down the rubble plug of the bevel gear cover 2. Then add some grease into it from the hole. (2)Take down the bevel gear cover at the left of the bed shaft and add some grease into it.

(3)Saturate the wick((5))with oil because the wick a can add oil for the feed crank((4)).

3.Trail run

Please lift the roller presser foot and run the machine at a lower speed of 1200~1500s.p.m when machine is put into use or use again after operation for a long time. After running 30 minutes, increase up the sewing speed gradually.



V Operation and adjustment

1.Choosing the thread(Fig.12)

- (1)The thread should be in good quality.
- (2)The thread should be left-twisted thread.

(3)Indentify the twist directon of the thread:hold the thread (shown in Fig.9), twist it upward by right hand. If it changs into twice, it is right-twisted. Contrary, it is left-twisted.









2.Installing the needle(Fig.13)

The needle is DP \times 5 12# \sim 20#. Select needle depend on the thread.

Installation:

(1)Lift the presser foot lifter, turn the balance wheel by hand to lift the thread take-up lever to its highest position.

(2)Press the roller presser foot down and open it leftward.

(3)Loosen the screw.

(4)Making the needle groove turn to the left side, the fully insert the needle shank up to the bottom of the needle clamp.

(5)Tighten the screw 2.

3.Passing the thread(Fig.14)

(1)Turn the balance wheel by hand to lift the thread take-up lever up the highest position.

(2)Lift the presser foot lifter, press the presser down and open it leftward.

The order as the Fig.14:thread pass by plate (3)three-eye thread guide (2)-the tension disc (4)thread take-up spring (5)-upper thread guide (6)thread take-up lever (1)-upper thread guide (6)-lower thread guide (7)-needle bar thread guide (8)-needle eye (9).

4. Winding the bobbin thread and adjustment(Fig. 15) The bobbin thread should be neat and tight. If the thread is not tight, please enlarge the pressure of thread tension disc A. If the thread is not neat, please move the bracket to adjust it. First loosen the screw(B), if the thread is wound to one side show as Fig (2), please move the bracket rightward, if the thread is would to one side shown as Fig.15((3)), please move the bracket leftward. Move the bracket until the thread is neat shown as Fig. 15((1)), then tighten the screw. Don't overfill the bobbin thread, or thread will loosen down from the bobbin. The optimum capacity of bobbin thread, or thread will loosen down from the bobbin. The optimum capacity of bobbin thread is fill about 80% of bobbin outside diameter and this can be adjusted by screw.

Notice: Nylon or polyester thread should be wound with light tension in particular. Otherwise, the bobbin (C)may be broken or deformed.

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5.Installing the bobbin into the hook(Fig.16,17) (1)Turn the balance wheel by hand to lift the needle bar up to its highest position. Open the roller presser foot leftward.

(2)Take down the sliding plate(B)

(3)Open the bobbin lock.

(4)Draw out the bobbin thread 5cm.

(5)Put the bobbin into the hook.

(6)Close the bobbin lock(B).

(7)Pass the 5cm thread through the hook groove(C).

Then draw out the thread form the bottom of D.

(8)Hold the needle thread by left hand and turn the

balance wheel by right hand.

(9)Put the bobbin thread nearby.

(10)Put on the sliding plate.





6.Adjusting the stitch length and reverse feed Push the plate and then turn the dial(2) to adjust the stitch length.The unit of measure is mm.

It is normal feed when reverse lever(③) is at its natural status. Press the reverse lever to get the reverse feed.



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7.Adjusting the tension of bobbin thread and needle thread.(Fig.19)

The tension of needle thread and bobbin thread should be suitable. The stitch form shown as Fig. 19(1) is the best. The abnormal stitch form shown as Fig. 19(2) will occur when the tension is tight or loosen.

(2)Adjusting the tension of bobbin thread

The tension of bobbin thread should be adjusted according to the material.

① Turn the balance wheel by hand to lift the thread take-up lever to its highest position.

② Take down the sliding plate, the adjusting screw will be seen shown as Fig.(1)

③ Put the screw-driver in the hold(B), then turn the setscrew (A) clockwise. The tension of bobbin thread will be strong.

④ If turn the adjusting screw(A)counter-clockwise, the tension of bobbin thread will be weak.

(2)Adjusting the tension of needle thread

① Generally, adjust the pressure on thread tension disk to change the tension of needle thread. As Fig.(2), turn the nut(A) clockwise to increase the pressure on thread tension disk. Contrary, reduce the pressure.

② Adjusting the tension of thread take-up spring.

Light material	20g
Common material	25g
Heavy material	30g

Adjustment:(Fig.(3))

a.Put down the presser food lift

b.Loosen the thread take-up spring shaft screw(C).

c. The tension becomes weak by turning the thread takeup spring shaft clockwise. Contrary, it becomes strong. d. Tighten the screw(C)after adjustment.

(3) The swing range of thread take-up spring

The thread take-up spring should be able to swing when the thread take-up lever is at its highest position. The range of thread take-up spring should be:

Light material over 8mm

Common material approx.8mm

Heavy material less 8mm

The method of adjusting swing range(Fig.(4))

a.Put down the presser foot lifter

b.Loosen the screw(1)

c. Turn the thread take-up spring limited disc (③) counter-clockwise, the swing range will increase. Contrary, the swing range will reduce.

d.Tighten the screw(1)

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8.Adjusting the height of feed dog and the pressure presser bar

In order to fit sewing on different material, the height of feed dog and pressure of presser bar should be adjusted. Sewing on light material, if the height of feed dog is too high or pressure of presser bar is too strong ,the material, if the height of feed dog is too low or pressure bar is too weak, the stitch will not be regular.

Light material 0.8mm

Common material 1.0mm

Heavy material 1.2mm

(1)The height of feed dig is the height between feed dog and meedle plate when the feed dog is lifted up to its highest position.

a. Push over the machine head

b. Take down the bevel gearing grease cover

c. Turn the balance wheel to lift the feed dog to its highest position

d. Loosen the left crank((6))screw((5))

e. Change the height of feed dog by adjusting left crank(6)

f. Tighten the screw after adjustment.

(1)Adjusting the pressure of presser bar

Turn the setscrew (A)clockwise to increase the pressure of presser bar.Contrary, turn the screw counter-clockwise to reduce the pressure of presser bar. If it isn't satisfy with forward requirement after adjusting screw (A).Fine adjustment can be done.

9.Adjusting the position of hook and needle(Fig.21) (1)Adjusting the position of hook and needle

Lift the needle up to 2mm away from its lowest position. The correct position between the hook and needle: The needle eye is 1.6mm lower than the tip of hook. The tip of hook is opposite to the needle groove. There is a 0.05mm clearance between the tip of the hook and the needle groove.

The method of adjustment:

(1) Adjusting the position of needle bar

a:Turn the balance wheel to lift needle bar up to 2mm height away from its lowest position.

b. Loosen the needle connector screw(A)

c. Move the needle bar upward and downward to make the needle eye is 1.6mm lower than the tip of hook.d. Tighten the needle bar connector screw(A) after adjustment.





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2 Adjusting the position of hook tip

a. Take down the sliding plate and needle plate

b. Push over the machine head

c. Take down the small oil pan

d. Loosen the bevel gear screw (5)

e. Turn the balance wheel to lift the needle up to 2mm away from its lowest position

f. Turn the bevel gearing to make the tip of hook opposite to the center of needle groove

g. Tighten the bevel gear screw (5) after adjustment

h. Fix the bevel gearing grease cover

(2) Installation and uninstall of the hook

Please follow the steps to install and uninstall the hook if hook is damaged when operation

① Uninstalling the hook

a. Turn the balance wheel to lift the needle bar to is highest position

b. Take down the sliding plate, needle plate and bobbin.

c. Take down the front cover plate of hook shaft(C) d. Loosen the screw(D)and take out the thread separator(B)

e. Take down the screw(G)and take out the presser plate(F)

f. Take out the hook head(E)lightly

g. Loosen the setscrew(H) and take out hook(I)

② Installing the hook

a. Install the hook in the reverse order of uninstalling

b. Pay attention to the hook installing direction is same as uninstalling direction.

10. The relation between the hook and hook thread separator(Fig.23)

(1)Take down the sliding plate and front cover of post bed

(2)Turn the balance wheel to make the clearance between the hook and thread separator be the largest

(3)Loosen the screw(B) to make the clearance be 0.2mm. Different clearance depends on different thread.

(4)Tighten the screw(B) after adjustment.

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11.Adjusting the position of the feed dog and needle (Fig.24)

Fig.24 shows the position of feed dog and needle. When the feed dog go down to the fpat of needle plate after finishing feeding, the needle point also go down to the flat of needle plate at this time.

a. Take down the rear cover(2).

b. Loosen the feed cam screw(③).

c. Fixed the feed cam by one hand, turn the balance wheel to adjusting the timing of feed.

d. Turn the balance wheel counter direction to reduce the timing of feed.

e. Tighten the screw(2) after adjusting.



Parts Manual

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1. Bed Parts

No.	Name	Part number	Qt.
1	Face plate	27WF2-005A	1
2	Plug (big)	22T1-003C3	1
3	Plug (small)	22T1-003C4	1
4	Screw	1WF5-042	3
5	Screw	1WF1-011	1
6	Washer	22T1-007	1
7	Lower thread guide	27WF2-005B	1
8	Presser plate	27WF2-005D	1
9	Screw	20T1-013F3	2
10	Oil felt	27WF2-005C	1
11	Nut	27WF2-005E	1
12	Upper thread guide	1WF1-008	1
13	Screw	1WF1-009	2
14	Screw	22T1-013	1
15	Three-eye thread guide	22T1-010	1
16	Upper thread retainer	1WF1-015	1
17	Block	1WF1-021	1
18	Oil stopper cover plate	1WF1-020	1
19	Oil stopper plate	27WF2-006	
20	Screw	1WF5-042	1
21	Screw	1WF1-011	2
22	Washer	22T1-007	2
23	Oil felt	21WF2-013	3
24	Safety device for thread take-up lever	27WF2-015	3
25	Screw	22T1-011	2
26	Screw	1WF1-011	3
27	Washer	22T1-007	
28	Screw	1WF1-016	
29	Rear cover	27WF2-007	

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Part number No. Name Qt. 22T1-012F11 1 O-type ring 1 22T1-012F8 2 Screw 1 27WF2-008J 3 Thread tension adjusting bracket 1 27WF2-0081 4 Thread release pin 1 27WF2-008G 5 Thread take-up spring 1 27WF2-008H 6 Screw 1 27WF2-008F 7 Thread tension disc 2 27WF2-008E 8 Thread tension presser plate 1 9 Stopping plate for thread tension presser plate 27WF2-008D 1 27WF2-008C 10 Tension disc separator 1 27WF2-008B 11 Thread tension spring 1 22T1-012F10 12 Stopping plate for tension nut 1 27WF2-008A 13 Thread tension nut assembly 1

2. Thread tension assembly parts

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3. Lubrication parts



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3. Lubrication parts

No.	Name	Part number	Qt.
1	Screw	- 16WF1-059	1
2	Oil wick		3
3	Oil pipe	27WF2-009A	1
4	Oil wick	~	1
5	Oil bag (front)	27WF2-016	1
6	Upper oil pipe clamp	1WF6-042	1
7	Oil out-let pad	27WF2-012	1
8	Oil felt	27WF2-013	1
9	Oil pad	27WF2-011	2
10	Screw		2
11	Oil box	27WF2-014B	1.
12	Big oil felt	27WF2-014C	1
13	Upper cover	27WF2-014A	1
14	Screw	21WF4-055	2
15	Screw		2
16	Small oil felt	27WF4-014D	2
17	Long oil wick		1
.,	Short oil wick		1
18	Oil bag (rear)	27WF2-017	1
19	Oil bag (front)	27WF2-018	1
20	Lower oil pipe clamp	27WF2-010	1
21	Screw	21WF4-055	1
22	Rubble plug	22T1-017	2
23	Oil bag (rear)	27WF2-019	1
24	Oil box	27WF2-020	1
25	Screw	1WF3-009	2
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4. Thread take-up assembly parts

No.	Name	Part number	Qt.
1	Oil pad	22WF2-011	1
2	Oil felt	22T2-010	1
3	Needle bar upper bushing	27WF1-003	1
4	Needle bar	27WF1-001	1
5	Needle bar connector	22T2-001A8	1
6	Screw	22T2-001A9	1
7	Needle bar lower bushing	27WF1-004	1
8	Thread ring	27WF1-002	- 1
9	Needle		1
10	Screw	22T2-017	1
11	Oil wick		1
12	Screw	JQ.0.5	1
13	Thread take-up lever shaft	27WF1-007	1
14	Thread take-up lever	27WF1-006	1
15	Position screw for needle bar crank pin	22T3-002B2	1
16	Set screw	20T2-030	• 1
17	Needle bar crank	27WF1-005	1
18	Position screw for needle bar crank	22T2-007	1
19	Set screw for needle bar crank	22T2-006	- 1
20	Sliding bushing assembly	27WF1-008	`1
21	Oil wick		1
22	Pin	27WF1-030	1
23	Needle bar link	27WF1-009	1
24	Sliding block guide rail screw	22T2-019	2
25	Sliding block	22T2-020	1
26	Sliding block guide rail	22T2-018	1

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Qt. -Part number Name No. 22WF1-011 1 Upper shaft bushing (left) 1 22T3-002B1 1 Upper shaft collar 2 27WF1-010 1 Upper shaft 3 1 27WF1-012 Oil felt 4 2 22T3-002B2 5 Screw 22T1-010E2a1-2 1 Upper shaft bevel gear 6 8 22T2-005B3 Set screw 7 1 27WF3-013A Feed cam 8 2 22T1-013 9 Screw 22T3-009D1a2 1 Sliding block 10 33T2-015 1 Oil felt 11 33T2-016 1 Oil felt spring 12 27WF1-013 1 Upper shaft bushing (right) 13 27WF1-014 1 14 Oil felt 22T3-008 1 Screw 15 27WF1-015A 1 Balance wheel 16 2 22T3-007C2 Balance wheel screw 17 27WF3-014 1 Feed drive fork connection 18 27WF3-013B 1 Feed drive link 19 22T6-007 1 20 Pin 22T3-010E2b1-2 1 Upper shaft right bevel gear 21 22T3-010E2b2-2 1 Vertical shaft bevel gear (lower) 22 2 J0.0.40 23 Screw 27WF1-017B 1 Oil felt 24 22WF1-018 1 Vertical shaft bushing (upper) 25 27WF1-016 1 26 Vertical shaft 27WF1-017A 1 27 Vertical shaft bushing (upper) 22T3-010E2a2-2 1 28 Vertical shaft bevel gear (upper) 1 29 Retaining ring

5. Upper shaft and vertical shaft parts

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6. Feed drive lower shaft parts

No.	Name	Part number	Qt.
1	Retaining ring for shaft		2
2	Washer	51T5-013	2
3	Washer	27WF3-006	1
4	Washer	27WF3-007	1
5	Feed crank (left)	27WF3-021A	1
6	Feed dog support	27WF3-021C	1
7	E-type retainer		1
8	Shaft for feed dog support crank	27WF3-021B	1
9	Screw	22T2-019	2
10	Screw	22T6-008D3	2
11	Feed drive shaft	27WF3-010	2
12	Feed crank	27WF3-019A	1
13	Feed shaft bushing (right)	27WF3-002	2
14	Screw	J0.0.40	4
15	Feed shaft bushing (left)	27WF3-001	2
16	Washer		1
17	Screw	22T6-008D3	2
18	Screw	22T1-011	1
19	Pin	27WF3-020	1
20	Lower shaft bushing (left)	27WF1-020A	1
21	Screw	20T2-018	2
22	Oil felt	27WF1-017B	1
23	Lower shaft bushing (middle)	27WF1-017A	1
24	Lower shaft bushing (right)	27WF1-018	1
25	Set screw	01/B308	. 3
26	Collar	22T4-002B1	1
27	Upper shaft	27WF1-019	1
28	Feed drive crank (left) assembly	27WF3-023	1
29	Screw	22T6-008D3	1
30	Feed drive crank	27WF3-022A	1
31	Screw	22T6-001A1b	2

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7. Stitch regulator parts



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7. Stitch regulator parts

No.	Name	Part number	Qt.
1	Pin for feed drive fork connection	22WF3-011	<u>1</u>
2	Pin for stitch length connection	33T2-024-A	1
3	Screw	1WF2-038	1
4	Stitch regulator connecting link	22T5-001A2	1
5	Screw	1WF2-038	2
6	Swing lever for stitch regulator	27WF3-015A	1
7	Screw	J0.0.40	1
8	Swing lever hinge shaft bushing	27WF3-016	1
9	Pin for stitch regulator swing lever	22T5-004	1
10	Stitch length regulator screw	27WF3-017	- 1
11	Stop pin spring	22T5-009	-
12	Stop pin	36T5-012	1
13	Spring	36T5-011	1
14	Push plate	36T5-010	1
15	Dial cup	27WF3-004	1
16	Dial face	27WF3-003	1
17	Screw	27WF3-005	1
18	Screw bushing	36T5-007D4	1
19	Screw	22T5-010D3	- 1
20	Reverse feed control lever	27WF3-012B	1
21	Screw	1WF2-038	1
22	Reverse feed control lever washer	27WF3-012C	1
23	Short shaft for reverse feed control lever	27WF3-012A	1
24	Sliding block assembly	22T5-012E1a	1
25	Reverse feed control lever crank	2T5-012E1	. 1
26	Screw	22T5-013	1
20	Spring	27WF3-008A	1
28	Draw lever	27WF3-009	1
29	Draw lever bracket	27WF3-018	1
30	Screw	22T2-019	1
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8. Post-bed parts



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8. Post-bed parts

No.	Name	Part number	Qt.
	Deed dee	27WF3-021G	1
1	Feed dog Post-bed	27WF2-024	1
2		27WF2-025	1
3	Needle plate Screw	27WF2-026	2
4		27WF2-029	8
5	Screw Rear cover of post-bed	27WF2-028	1
6		27WF2-032	1
7	Retaining plate	22T2-019	4
8	Screw	22T2-004	1
9	Screw	27WF3-024	1
10	Retaining plate of feed plate	22T6-008D3	4
11	Screw	27WF2-031	1
12	Fixed bracket	27WF2-026	1
13	Screw	22WF3-021D	1
14	Feed plate	1WF2-074	1
15	Nut	27WF3-021E	1
16	Screw	27WF3-021F	1 1
17	Nut	27WF3-025	1
18	Sliding block	22T2-020	2
19	Screw	16WF3-031	6
20	Screw		6
21	Washer		6
22	Washer	22WF1-025	U. 1
23	Hook shaft		1
24	Hook assembly	16WF1-063	1
25	Bobbin	27WF1-027	1
26	Set screw	27WF2-021	
27	Sliding plate		
28	Oil wick	27WF2-023	1
29	Hook post-bed	27WF1-028A	1
30	Position bracket	27WF1-029	1
31	Screw	27WF1-026A	
32	Hook shaft collar	22T3-002B2	
33	Screw	22T1-011	2
34	Screw	22T3-002B2	
35	Screw	22T1-023A	4
36	Lower gearing	27WF1-022A	
37	Lower shaft left bevel gearing	27WF1-022R	
38	Swing fork	7WF5-008	
39	Set screw	27WF2-030	
40	Screw	27WF2-030 27WF2-027	3
41	Front plate of post-bed	27WF1-024	
42	Hook shaft bushing	2/WF1-024	1

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9. Presser foot parts



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9. Presser foot parts

No.	Name	Part number	Qt.
1	Fine-adjusting screw	27WF4-007	1
2	Nut	27WF4-008	1
3	Column	27WF4-002	1
4	Fine-adjusting spring	7WF5-027	1
5	Screw for adjusting pressure	27WF4-006	1
6	Spring	27WF4-005	1.
7	Presser bar	27WF4-001A	1
8	Screw for guide bracket	17T5-016	1
9	Presser foot lifter bar	27WF4-009	1
10	Screw	17T5-016	1
11	Screw	27WF4-010C	1
12	Pin	27WF4-004	1
13	Screw	27WF4-001F	2
14	Position block	27WF4-001C	ے 1
15	Screw	22T1-013	1
16	Screw	27WF4-020	1 1
17	Screw	27WF4-006	1 '
18	Roller presser foot clamp	27WF4-001B	1
19	Spring	27WF4-001D	1
20	Spring bracket	27WF4-001E	1
21	Bushing	22T7-009	1
22	Block	27WF4-010A	. 1
23	Thread release lever	27WF4-011	· 1
24	Guide bracket	27WF4-003	1
25	Connecting lever	27WF4-010B	1
26	Pin	27WF4-014B	1
27	Screw	01/B602	· I 1
28	Knee lifter cutting lever	27WF4-014A	1
29	Screw	27WF4-015	1
30	Connecting screw	27WF4-018	1
31	Connector	27WF4-017	1
32	Nut	1WF2-074	1
33	Knee lifter draw lever	27WF4-016	1
34	Gyro roller	27WF4-019A	1
85	Elastic pin		1
36	Crank	27WF4-019B	1
17	Crank bracket	27WF4-019C	1
8	Pin		1
19	Spring	27WF4-019D	1
0	Screw	28WF4-005	2
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10. Accessories



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10. Accessories

No.	Name	Part number	Qt.
1	Screw for oil pan and cushion	33TF-004	
2	Small oil pot	33TF-011	0
3	Screw for hinge case		4
4	Hinge case	16WF6-003	2
5	Screw for hinge	16WF6-004	1
6	Hinge	16WF6-002	2
7	F-type spool stand	4F-007	- 1
8	Screw	27WF5-005	1
9	Safety cover for belt	27WF5-004	3
10	Bobbin winder assembly	27F-002	4
11	Bobbin	16WF1-063	1
12	Cushion	16WF6-009	4
13	Knee lifter control assembly	27F-001	1
14	Needle		1
15	Parts bag	33TF-010	1
16	Screw driver (small)	33TF-014	2
17	Screw driver (medium)	33TF-013	1
18	Screw driver (big)	33TF-012	1
1	V-belt	27F-004	1
20	Oil pan	27WF5-002	1
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