TW1-1245-HL14 //-HL30 INSTRUCTION BOOK // PARTS CATALOGUE



LONGARM COMPOUND FEED LOCKSTITCH SEWING MACHINE LANGARM-, 3-FACH TRANSPORT STEPPSTICH-NÄHMASCHINE

TYPICAL

☐ Please don't adjust and repair the machine by non-professionals, except adjusting stitch. ☐ Specifications subject to change without notice	
TYPICAL SEWING MACHINE WANPING MACHINERY CO.,LTD.	
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1. Brief introduction

This machine adopts compound feed mechanism with synchronous top, bottom and needle feed and the max amount of alternating presser foot lifter reaches 7 mm, which guarantees the high sewing quality of different materials. Besides, it adopts the large auto-lubricating horizontal rotating hook, 4-link thread take-up lever and timing belt, which assures its lower noise and high speed.

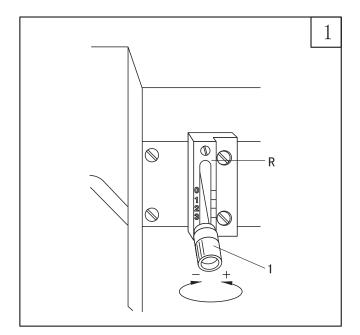
This machine is widely used in manufacturing suitcase, tents, cushions, lenther products, clothes bamboo matting, etc.

2. Main technical specifications

Model	TW1-1245	TW1-1245V	TW1-1245HL14	TW1-1245HL30				
Max. Sewing speed	2000s.p.m		00s.p.m 1800s.p.m					
Max. Stitch length			8mm					
Needle bar stroke	36mm							
Needle		DP 3	5 Nm110~1	50				
Lubrication		By h	nand(partly)					
Foot lifting		By hand/k	rnee	By hand/solenoid				
Motor power		370W	ı	550W				

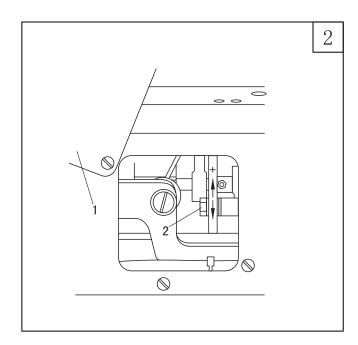
3. Feed adjustment/reverse stitching(Fig. 1)

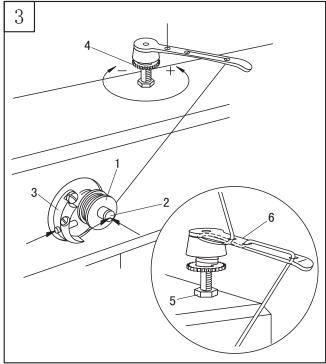
- 1. Adjusting the stitch length by turning Nut 1;
- 2. When backward stitching, push Nut 1to Mark R as much as possible.



4. Adjusting upper feed stroke (Fig. 2)

Open the rear cover 1; loosen the screw2, and as required, move it up and down.



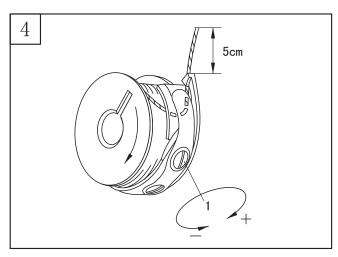


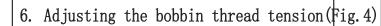


5. Winding bobbin thread (Fig. 3)

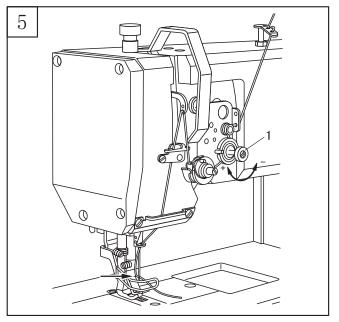
- 1. Put the bobbin into the bobbin shaft 2;
- 2. As Fig 3 shows, draw out the thread and winding clockwise to the bobbin several times;
- 3. Before winding, press down the winding shaft 2 and the hook gib 3;
- 4. Adjusting the bobbin 1 thread tension by the screw 4:
- 5. When he bobbin is full, the bobbin winder will automatically stop.

If the winding is abnormal, loosen the screw 5, and as required, move the thread guide 6, then tighten the screw 5.





- 1. As Fig.4 shows, draw out the bobbin thread;
- * When the bobbin thread is drawn out, the bobbin should run as the arrow goes.
- 2. Adjusting the bobbin thread tension by the screw 1.



- 7. Threading the needle thread/adjusting the tension of needle thread(Fig. 5)
 - 1. Threading as the Fig 5 shows.
- * Pass the thread to the eye of needle from the left side(Fig.arrow)
- 2. Adjusting the needle thread tension by the screw 1

8. Maintenance

Clean the bobbin clearance	Once a week
Normal oiling	Twice a week
Front parts oiling	Twice a week
Check the hook oil box	Once a week
Clean the rotating hook	Once a week
Upper feed driving eccentric oiling	once a year

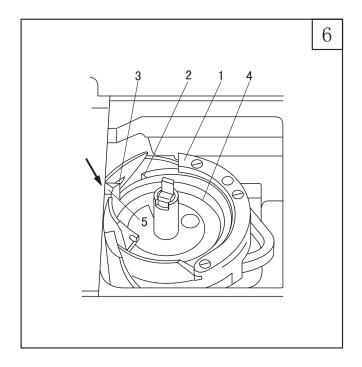
* The above data is due to the normal situation. If the machine is used frequently, the interval of the maintenance should be shortened.

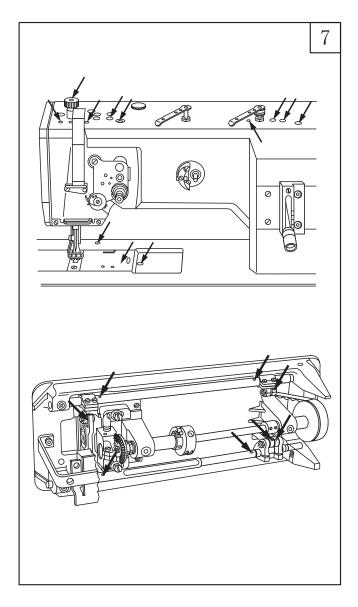
Maintenance for rotating hook(Fig.6)

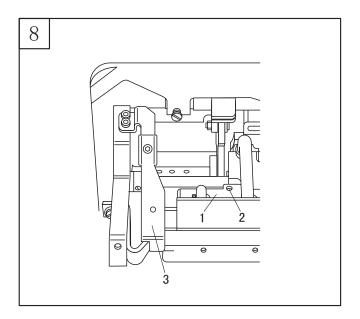
- 1. Clean the rotating hook with brush every day, and constant use needs more frequent cleaning.
- 2. Clean the rotating hook thoroughly every week. As follows:
- a. Open the slide plate and lift the needle bar to its highest point;
 - b. Take out the bobbin cap and the bobbin;
- c. Release the hook gib 1; turn over the balance wheel until the Point 2 passes to the groove 5mm; then take out the bobbin case;
- d. Clean the rotating hook track with paraffin wax;
- e. When the bobbin case is installed, the horn 5 and needle plate groove must be closely touched; (Fig. Arrow)
- f. Tighten the hook gib 1, install the bobbin case and close the slide plate.

9. 0iling(Fig. 7)

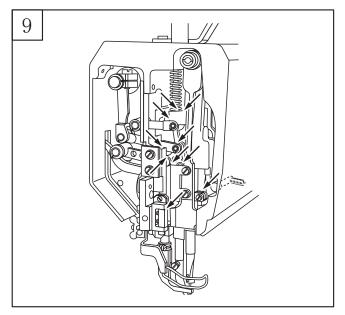
The machine must be oiled at the mark(arrow) twice a week.



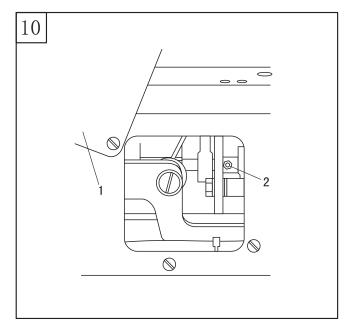




- 10. Lubricating the hook (Fig. 8)
- 1. Pull out the knee lever, then lay down the machine head;
- 2. Fill the oil into box 1 through the hole 2 until the oil level exceeds the highest level mark;
 - 3. Raise the machine.



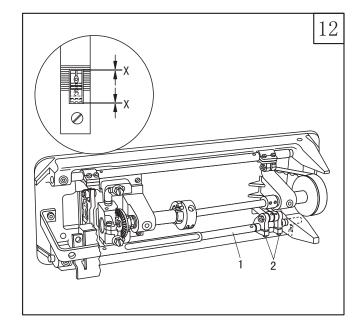
- 11. Lubricating the machine head (Fig. 9)
 - 1. Open the face plate;
- 2. Oil twice a week at all the moving position as the Fig shows;
 - 3. Close the face plate.



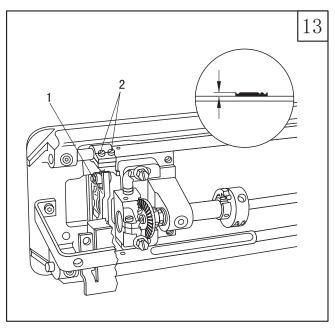
- 12. Lubricating the upper feed driving eccentric (Fig. 10)
 - 1. Open the rear cover 1;
- 2. Oil the interface (2) at least twice a year; (apply to oil gun)
 - 3. Close the rear cover.

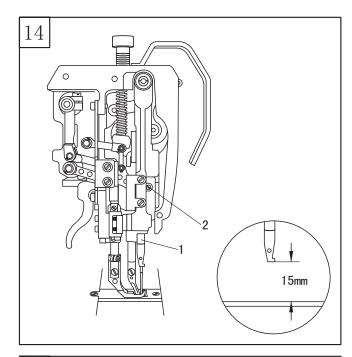
13. Adjusting the feed dog

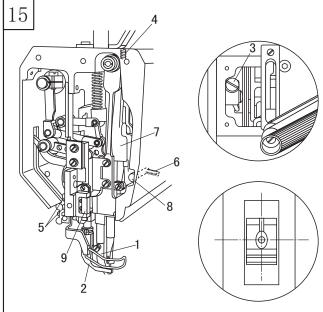
- 1. Positioning the feed dog across the direction of sewing(Fig.11);
 - a. Loosen the screw 1 and 2;
 - b. Adjust the shaft 3 as required;
- c. Tighten the screw 1. (Keep the screw 2 loosening for the following adjustment)
- X The bottom feed dog must be the same distance from the left and right side of the needle plate cutout
- 11 x - x 3 2
- 2. Positioning the feed dog in the direction of sewing (Fig. 12)
 - a. Set the longest stitch
- b. Adjust the shaft 1 as required, and tighten the screw 2.
- *With the longest stitch set, the bottom feed dog must have the same clearance the front and the back with respect to the needle plate cutout when feeding both forwards and backwards.

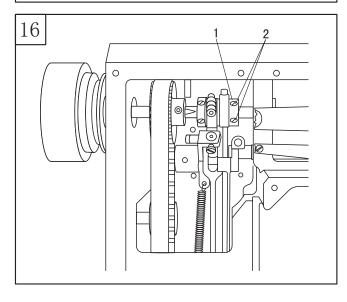


- 3. Adjusting the height of feed dog (Fig.13)
- a. Adjust the stitch length to "0";
- b. Turn over the balance wheel until the feed dog reaches its highest position; and as required, adjust the feed dog supporter 1 and the screw 2.









14. Pre-adjusting the needle height (Fig. 14)

Move the needle bar 1 (screw2) up and down, and as required, adjust it to the right position.

*When the needle bar is at the lowest position, the clearance between needle bar and needle plate should be 15 cm.

15. Centering the needle in the needle hole (Fig. 15)

- 1. Loosen the walking foot 1 and the presser foot 2;
- 2. Adjust the stitch length to "0", and lift the needle bar to its highest point;
- 3. Insert the new needle, and loosen the screw 3,4, 5,6;
- 4. Turn the balance wheel and pass the needle directly through the feed dog;
 - 5. As required, move the needle bar frame 7;
 - 6. Tighten screw 3,4,5,;
- 7. Move the pin 8 to make it touch the needle bar frame 7, and tighten screw6.
- *When the stitch length is at the "0", the needle must enter the needle hole exactly in the middle

16. Adjusting the bottom feed dog position (Fig. 16)

- 1. Adjust the needle bar to the lowest position;
- 2. Turn the eccentric wheel 1(screw 2), and adjust the bottom feed dog to the highest position;
- 3. Tighten screw 2 to make the eccentric wheel 1 unable to turn;
- 4. Set the stitch length to the max and turn the eccentric wheel 1 a bit in accordance with requirement 2
 - 5. Tighten screw (2).
- * a. When the needle bar is at its lowest position, the bottom feed dog should be at the highest position;
- * b.Set the stitch length to its max; turn the balance wheel, and when t he bottom feed dog and the needle plate are in the same horizzontal level, the point of the needle should be right reaching the surface of the needle plate.

17. Lower feed adjustment (Fig. 17)

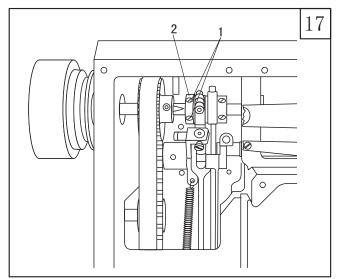
- 1. Adjust the stitch length to the max;
- 2. Loosen screw 1 to make the feed eccentric wheel 2 turn around the shaft;
 - 3. Adjust the needle bar to the lowest position;
- 4. Turn the eccentric wheel 2 so that its eccentricity is facing downwards.
- 5. As required, turn the eccentric wheel a bit as it turns and tighten screw 1;
 - 6. Check it as required.
- *When the stitch length is at the max, the needle bar is at the lowest position, if the reverse feed lever is activated, there will be no feeding.

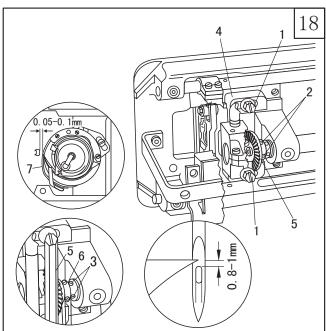
18. Position of needle and rotating hook (Fig. 18)

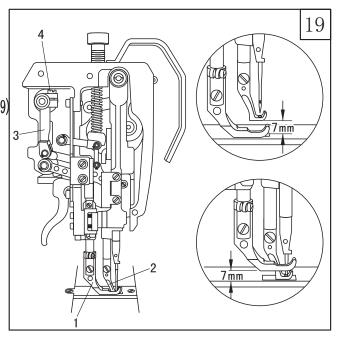
- 1. Adjust the stitch length to "3", and loosen screw 1,2;
- 2. The clearance between needle and the hook point should be adjusted to 0.05-0.1 mm by moving the hook gear 4;
 - 3. Tighten screw 1;
- 4. Turn the needle to the lowest position, and continue to turn the hand wheel to raise 2 mm of the needle;
- 5. Make the hook point aim at the center of the needle and be sure the guard plate 7 doesn't press on the needle;
 - 6. Leave some gear clearance and tighten screw 2;
- 7. The vertical clearance between the top of needle eye and the hook point should be 0.8-1 mm by adjusting the needle height;
- 8. The guard plate 8 might be adjusted to touch the needle lightly.
- *When the stitch length is adjusted to "3" and the needle is lifted 2 mm from the lowest position, the following requirements must be reached:
- a. The clearance between needle and hook point is 0.05-1mm;
- b. The vertical clearance between the top of needle eye and hook point is 0.8-1mm;
 - c. The guard plate must touch the needle lightly.

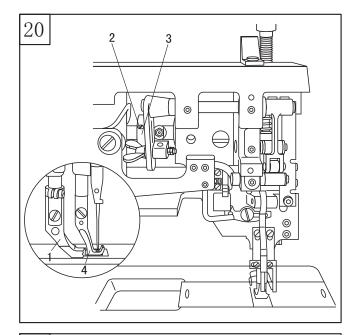
19. Adjusting the lifting amount of alternating presser foot (Fig. 19)

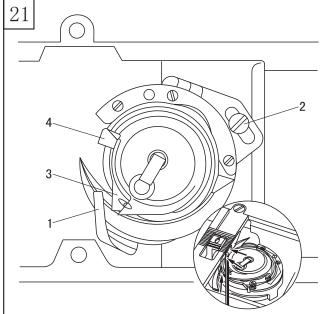
- 1. The stitch length is adjusted to "0", and the lifting amount of alternating presser foot is adjusted to the max;
 - 2. Lower the presser foot 1 on the needle plate;
- 3. Turn the hand wheel until the walking foot 2 reaches the highest position;
 - 4. As required, move the crank 3 (screw4);
 - 5. Check as required.
- *When the stitch length is at the "0" and the lifting amount of alternating presser foot is at the max, turn the hand wheel to make sure the clearace between presser foot 1/walking foot 2 and needle plate is 7mm.

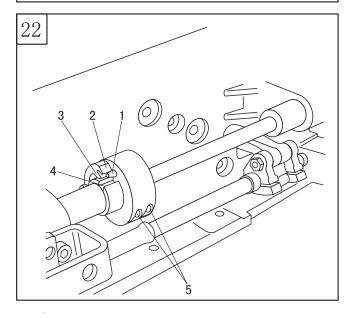












20. Top feed adjustment (Fig. 20)

- 1. Lower the presser foot on the needle plate;
- 2. Loosen screw 2 until the feed lifting eccentric wheel 3 can turn reluctantly;
 - 3. Adjust the eccentric wheel 3 as required;
 - 4. Tighten screw 2;
 - 5. Check as required.
- *When presser foot is resting on the needle plate, the walking foot and the point of needle must both reach the needle plate at the same time when the top feed stroke is set at maximum.

21. Adjusting the bobbin case opener

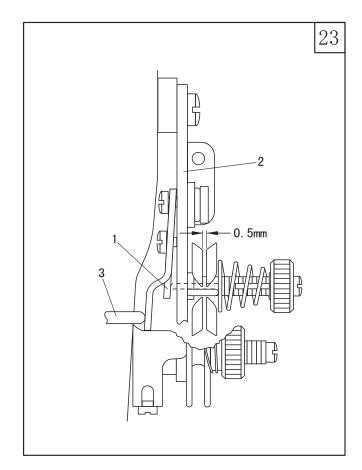
- 1. Thread the machine; lay down the material; then lower the presser foot;
- 2. Turn the hand wheel and sew a bit, then check as required.
 - 3. Move the opener 1 (screw 2) as required
- ** The needle thread must not be clamped when passing through the mark 1,3,4

22. Saftety clutch (Fig. 22)

- 1. When the rotating hook jams the thread, the safety clutch will be off to prevert the hook being damaged
 - 2. Take out the jammed thread;
- * Press the piston 1 and turn the hand wheel until hook 3 of pawl 2 clicks into groove 4

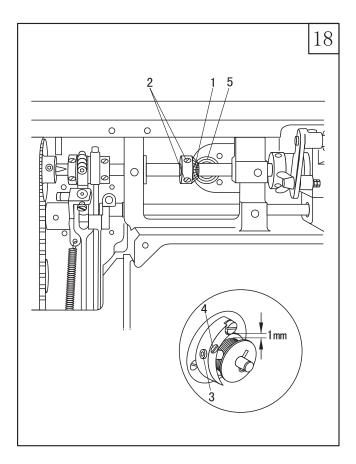
23. Needle thread tension release (Fig. 23)

When the presser foot is lifted, the clearance between the two tension discs should be 0.5mm (0.5mm is the minimum. When applied to thick thread, it could be adjusted to 1 mm or more). Adjust the plate 1 as required.



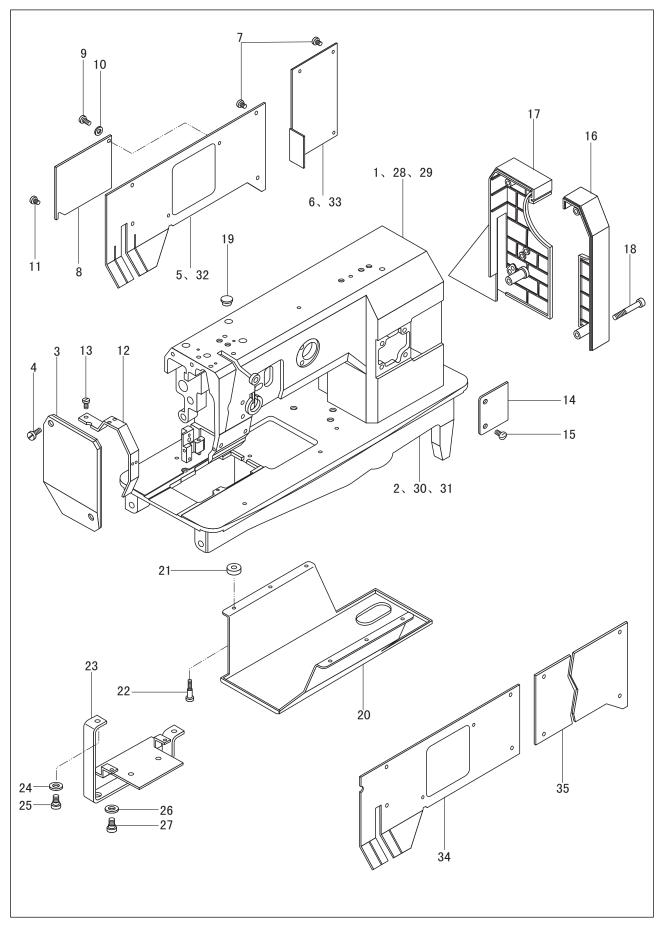
24. Bobbin thread winder (Fig. 24)

- 1. When the winder switch on, its spindle must engage reliable; when the winder switch off, the friction wheel 5 and the driving gear 1 should get apart;
- 2. When the thread level is approx. 1mm from the edg of the bobbin, the winder will switch off automatically;
- 3. When operating, set the bobbin on the winder, threading the bobbin thread and switch the winder On, adjust the pin 3 and screw 4 as requirements if need.



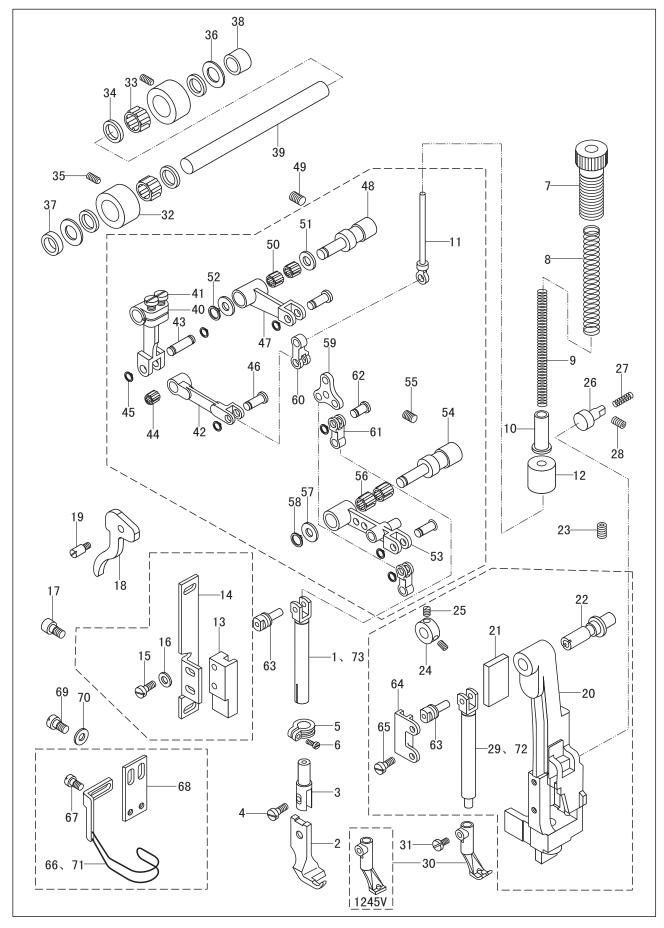
PARTS MANUAL

1. Machine casting components

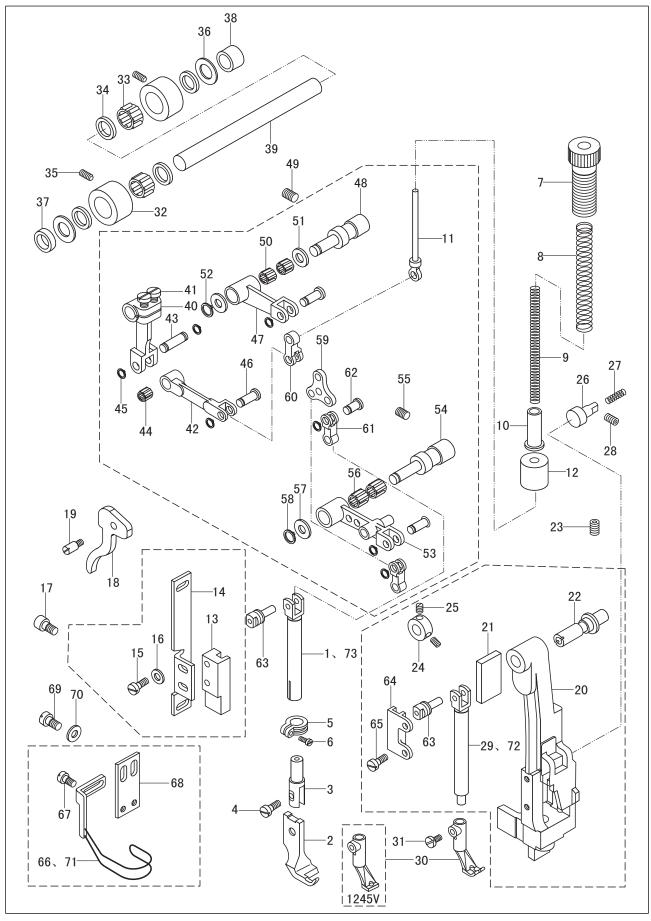


1. Machine casting components

No.	Parts No	. Name	1245	Q t	у. HL14	HL30	Remarks
1	71WF2-001	Arm	1	1	/	/	
2	71WF2-002	Bed	1	1	/	/	
3	71WF2-003	Face plate	1	1	1	1	
4	11112 000	Screw	2	2	2	2	CDCE WE 1 C
5	71WF2-004	Rear cover(left)	1	1	/	/	GB65-M5 1 6
6	71WF2-005	Rear cover(right)	1	1	/	/	
7	11112 000	Screw	8	8	8	8	
8	71WF2-006	Cover(small)	1	1	1	1	GB67-M5 8
9	71WF2-007	Screw(1)	1	1	1	1	
10		Spring	1	1	1	1	
11		Screw(2)	1	1	1	1	GB1972-80
12	71WF2-008	Thread take-up lever guard	1	1	1	1	GB67-M4 6
13		Screw	1	1	1	1	ODO: MT U
14	71WF2-009	Front cover	1	1	1	1	
15		Screw	2	2	2	2	GB67-M5 8
16	71WF5-005	Safety guard(1)	1	1	1	1	
17	71WF5-006	Safety guard(2)	1	1	1	1	GB67-M5 8
18		Set Screw	4	4	4	4	
19	71WF2-025	Plug	2	2	2	2	
20	71WF5-007	0il pan	1	1	1	1	GB70-85 M5 3 5
21	71WF5-008	Washer	6	6	6	6	
22		Screw	6	6	6	6	
23	71WF2-010	Oil box set bracket complet	e 1	1	1	1	
24		Washer	2	2	2	2	
25		Screw	2	2	2	2	GB845 ST2. 9 19-C-Z
26		Washer	2	2	2	2	
27		Screw	2	2	2	2	GB861.1-87 6
28	99WF2-006	Arm	/	/	1	/	GB70-85 M6 1 2
29	100WF2-001	Arm	/	/	/	1	GB96-85 4
30	99WF1-007	Bed	/	/	1	/	GB65-M4 8
31	100WF2-002	Bed	/	/	/	1	ODOS M4 O
32	99WF2-001	Rear cover(left)	/	/	1	/	
33	99WF2-002	Rear cover(right)	/	/	1	1	
34	100WF2-003	Rear cover(left)	/	/	/	1	
35	100WF2-004	Rear cover(middle)	/	/	/	1	

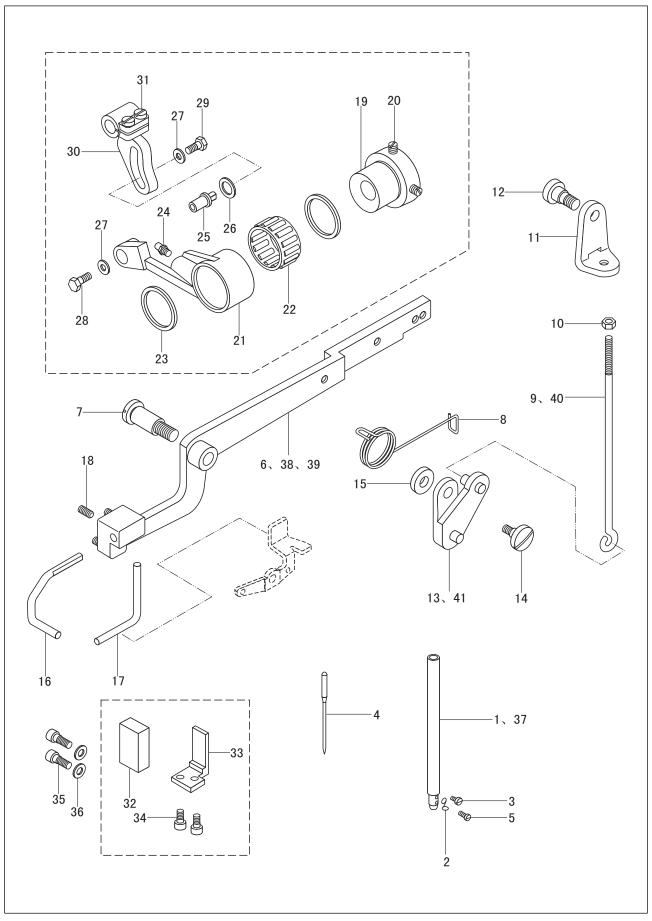


1	No.	Parts No	. Name			у.		Remarks
2	NO.	Tarts No	, ivame	1245	-V	HL14	HL30	Remarks
77WF7-004				1	1	/	/	
3 71WF4-003 Presser foot bracket 1 1 1 1 1 1 1 1 1	2				/	l	1	
4 71WF4-004 Screw				/	1	/	/	
5 71WF4-005 Collar	3		Presser foot bracket	1	1	1	1	
6	4	71WF4-004		1	1	1	1	
7	5	71WF4-005		1	1	1	1	
8	6	19WF1-013B	Screw	1	1	1	1	
9	7	71WF4-006	Screw	1	1	1	1	
10	8	71WF4-007	Spring(big)	1	1	1	1	
11	9	71WF4-008	Spring(small)	1	1	1	1	
12	10	71WF4-009	Spring bushing	1	1	1	1	
13	11	71WF4-010	Guide bar	1	1	1	1	
14	12	71WF4-011	Oil felt	1	1	1	1	
15	13	71WF4-012	Sliding guide	1	1	1	1	
15	14	71WF4-013	Set plate	1	1	1	1	M15 1
17	15		_	2	2	2	1	
18	16		Washer	2	2	2	2	
19	17		Screw	2	2	2	2	
19	18	71WF4-014	Presser foot lifting bar	1	1	1	1	
Needle bar rocking frame 1				1	1	1	1	
21				1	1	1		
22 71WF3-005								
Screw 1								CR65_M4_10
24 71WF3-006 Collar 1								
25 13WF1-029 Screw 2 2 2 2 2 2 2 2 2		71WF3-006						
26 71WF3-007							1	GD70-M9 10
27 71WF3-008 Spring Screw 1								
Screw 1						_		
29 71WF3-015		71 11 15 000		_				
30		71WE2_015		_		Ι.		
77WF7-002								ODEE NO O
31 71WF3-017 Screw 1 1 1 1 1 1 3 3 3 3	30			/		1	/	GB/7-Mb 8
32 71WF3-018 Upper feed bushing 2 2 2 2 2 3 3 3 8 8 8 8 8 8 8 9 8 9 9 9 9 9 9 9 9	91		- C	1			/ 1	W0 0
33						l	1	M3 3
34 71WF3-019 Stop ring 4 4 4 4 4 GB77-M5 8 35 Screw 2 2 2 2 2 36 71WF3-020 Washer 2 2 2 2 2 37 71WF3-021 Washer(front) 1 1 1 1 SM17/64" 28 38 71WF3-022 Washer(rear) 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		11WF3-018				ı	1	
35		71WE2 010	_					0055 V5 0
36 71WF3-020 Washer 2 2 2 2 2 3 37 71WF3-021 Washer(front) 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		71WF3-019						GB77-M5 8
37 71WF3-021 Washer(front) 1 1 1 1 SM17/64" 28		71 WES 000				ı	1	
38 71WF3-022 Washer(rear) 39 71WF3-023 Upper feed shaft 40 71WF3-024 Upper feed crank(I) 1 1 1 1 1 1								
39 71WF3-023 Upper feed shaft 1 1 1 1 φ10 φ13 9.7 Upper feed crank(I) 1 1 1 1								SM17/64" 28
40 71WF3-024 Upper feed crank(I) 1 1 1 1								
			* *	_				ф10 ф13 9.7
GB77-M6 5	40	71WF3-024	Upper feed crank(1)	1	1			
								GB77-M6 5



No.	Parts No	Name	1015		у.		Remarks
1,0.	1 31 00 110		1245	-V	HL14	HL30	ItOmai Ito
41		Screw	2	2	2	2	
42	71WF3-025	Presser foot lifting link	1	1	1	1	
43	71WF3-026	Link pin	1	1	1	1	
44	11110 020	Bearing	1	1	1	1	
45		Spring	6	6	6	6	
46	71WF3-027	Pin(long)	3	3	3	3	
47	71WF3-028	Upper feed crank(II)	1	1	1	1	
48	71WF3-029	Shaft	1	1	1	1	GB65-M5 1 2
49		Screw	1	1	1	1	
50		Bearing	2	2	2	2	
51	71WF3-030	Washer	2	2	2	2	Ф5 Ф87.7
52		Spring	1	1	1	1	GB894.1-5
53	71WF3-031	Upper feed crank(III)	1	1	1	1	
54	71WF3-032	Shaft	1	1	1	1	
55		Screw	1	1	1	1	
56		Bearing	2	2	2	2	GB77-M6 8
57	71WF3-033	Washer	1	1	1	1	ф6 ф97.7
58		Spring	1	1	1	1	anas :
59	71WF3-034	Movable plate	1	1	1	1	GB894.1-6
60	71WF3-035	Link	1	1	1	1	
61	71WF3-036	Presser foot link	2	2	2	2	0D55 W0 0
62	71WF3-037	Pin(short)	1	1	1	1	GB77-M6 8
63	71WF3-038	Slide block	1	1	1	1	Ф7 Ф107.5
64	71WF3-039	Sliding guide	1 2	1	1	1	GB894.1-7
65 66		Screw	1	2	2	2	GD094.1-7
67	71WF2-022	Finger guard	2	1 2	2	2	
68	71WF2-023	Screw	1	1	1	1	
69	71WF2-024	Finger guard set plate	2	2	2	2	
70		Screw	2	2	2	2	
71	99WF2-003	Washer	/	/	1	1	
72	99WF2-003 99WF3-004	Finger guard	/	/	1	1	GB65-M4 8
73	99WF4-001	Walking foot bar Presser foot bar	/	/	1	1	
'	99 W 1 4 001	rresser root bar	,	,	1	_	GB65-M4 8
							GB65-M5 8
							GB97.1-5

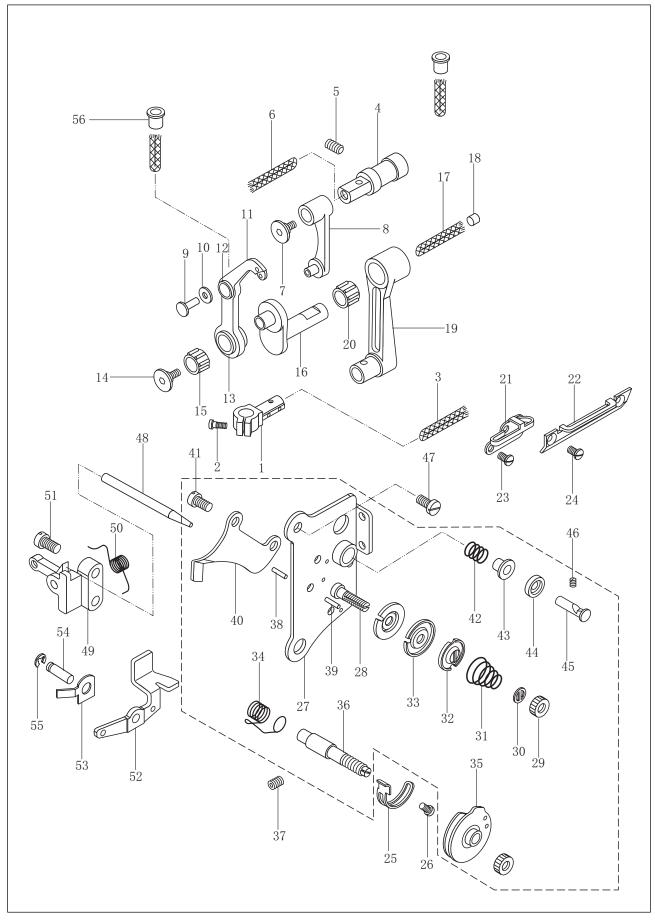
3. Presser foot lifting components



3. Presser foot lifting components

No.	Parts No	. Name	1245	Q t	у.	HL30	Remarks
-		N 11 1					
1	71WF1-001	Needle bar	1	1	1	1	
2	71WF1-002	Needle bar thread guide	1	1	1	1	
3	13WF1-015	Screw	1	1	1	1	M3 5
4	71WP1 000	Needle	1	1	1	1	DP 3 5 LR
5	71WF1-003	Screw	1	1	1	1	M3 5
6	71WF4-016	Knee lifter lever	1	1	/	/	
7	71WF4-017	Screw	1	1	1	1	
8	71WF4-018	Spring	1	1	1	1	
9	71WF4-019	Knee lifter drawing bar	1	1	/	/	
10		Nut	1	1	1	/	
11	71WF4-020	Connector	1	1	1	/	
12	71WF4-021	Screw	1	1	1	/	
13	71WF4-022	Movable plate complete	1	1	/	/,	
14	71WF4-023	Screw	1	1	1	/	
15	71WF4-024	Washer	1	1	1	/	
16	71WF4-039	Presser foot lift bent bar	1	1	1	1	
17	71WF4-040	Releasing bent bar	1	1	1	1	
18		Screw	3	3	3	3	
19	71WF3-040	Presser foot lift cam	1	1	1	1	GB6170-M5
20	13WF1-018	Screw	2	2	2	2	GB79-M5 5
21	71WF3-041	Link	1	1	1	1	
22		Bearing	1	1	1	1	M6 0 .75
23	71WF3-042	Stop ring	2	2	2	2	
24		Oil cup	1	1	1	1	Ф22 Ф26 1 2.6
25	71WF3-043	Pin	1	1	1	1	Ψ22 Ψ2012.0
26	71WF3-044	Washer	1	1	1	1	
27	71WF3-045	Washer	2	2	2	2	GB1152-89 M6
28		Screw(front)	1	1	1	1	
29		Screw(rear)	1	1	1	1	
30	71WF3-046	Adjusting crank	1	1	1	1	
31		Screw	2	2	2	2	GB5781-M5 8
32	71WF3-083	Block	1	1	1	1	GB5781-M5 1 0
33	71WF3-084	Set bracket	1	1	1	1	GD5761 M5 1 0
34		Screw	2	2	2	2	
35		Screw	2	2	2	2	GB65-M5 1 2
36		Washer	2	2	2	2	
37	99WF1-003	Needle bar	/	/	1	1	
38	99WF4-002	Knee lifter lever	/	/	1	/	GB70-M4 8
39	100WF4-001	Knee lifter lever	/	/	/	1	GB70-M4 1 6
40	99WF4-003	Knee lifter drawing bar	/	/	1	/	GB97. 1-4
41	99WF4-004	Movable plate complete	/	/	1	/	GD97.1 4
	<u> </u>	1					<u> </u>

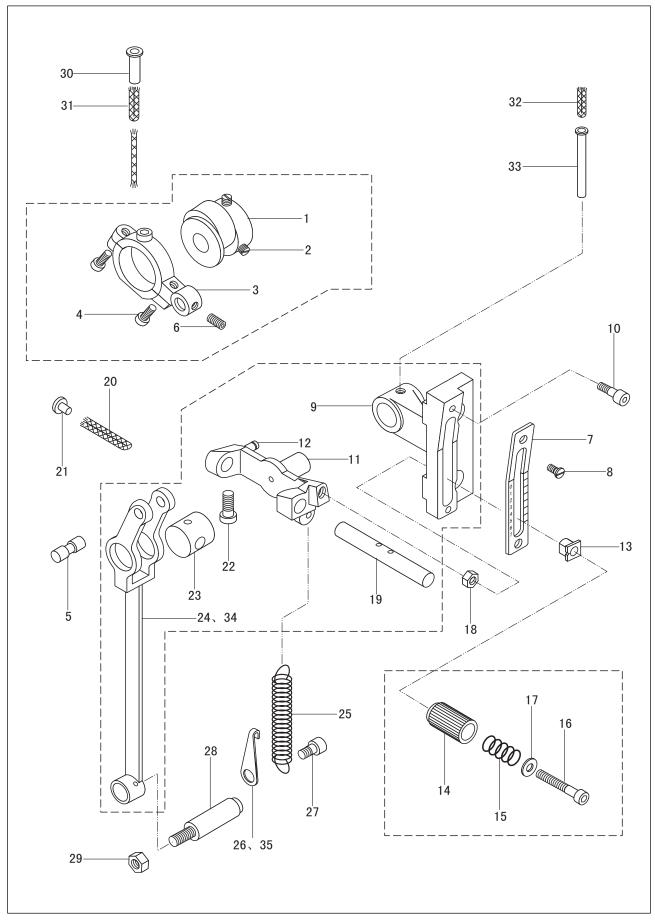
4. Thread take-up and thread tension components



4. Thread take-up and thread tension components

1 71WF1-004 Needle bar connector 1 1 1 1 2 71WF1-005 Screw 1 1 1 1 1 3 4 71WF1-006 Pin shaft 1 1 1 1 1 5 8 Crew 1	No. Parts No	rts No. Name	1945		у.	Н 30	Remarks
12 71WF1-008E Link bushing 1	1 71WF1-004 2 71WF1-005 3 4 71WF1-006 5 6 7 71WF1-007 8 71WF1-008A 9 71WF1-008B 10 71WF1-008B 10 71WF1-008E 13 71WF1-008E 13 71WF1-008F 14 71WF1-007 15 16 71WF1-010 19 71WF1-011 20 21 71WF2-011 22 71WF2-012 23 71WF2-013 24 25 71WF2-013 24 25 71WF2-018 29 71WF2-021B 29 71WF2-021B 31 71WF2-021B 32 71WF2-021B 32 71WF2-021B 33 71WF2-021B 34 71WF2-021B 35 71WF2-021B 36 71WF2-021B 37 71WF2-021B 37 71WF2-021B 38 71WF2-021B 39 71WF2-021B 31 71WF2-021B 32 71WF2-021B 33 71WF2-021B 34 71WF2-021B 35 71WF2-021B 47 71WF2-021B 48 71WF2-021B 49 71WF2-021B 41 71WF2-021B 42 71WF2-021B 43 71WF2-021B 44 71WF2-021B 45 71WF2-021B 47 71WF2-021B 48 71WF2-021B 49 71WF2-021B 40 71WF2-021B 41 71WF2-021B 42 71WF2-021B 43 71WF2-021B 44 71WF2-021B 45 71WF2-021B 46 71WF2-021B 47 71WF2-021B 48 71WF2-021B 49 71WF2-021B 50 71WF4-036 51 71WF4-036 51 71WF4-036 51 71WF4-037 54 71WF3-053	Needle bar connector Screw Oil wick Pin shaft Screw Oil wick Screw Stud Washer Thread take-up lever Link bushing Bearing bushing Screw ScreolIf Screw Screw Screw Screw Thread take-up spring Thread tension disc Thread take-up spring Thread control plate assemb Screw Screw Thread guide pin Thread releasing pin Thread releasing plate Screw Screw Screw Thread tension cap Thread tension cap Thread tension cap Thread tension disc Pin Screw Screw Thread releasing bar Screw Screw Thread releasing bar Thread releasing lever Spring plate Lever stud	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	-V 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	HL14 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		M4 10 GB77-M6 8 Φ7 Φ10 7.5 Φ9 Φ12 12.7 M5 7 GB68-M4 8 GB65-M4 6 GB73-M4 8 GB67-M4 10 M5 6

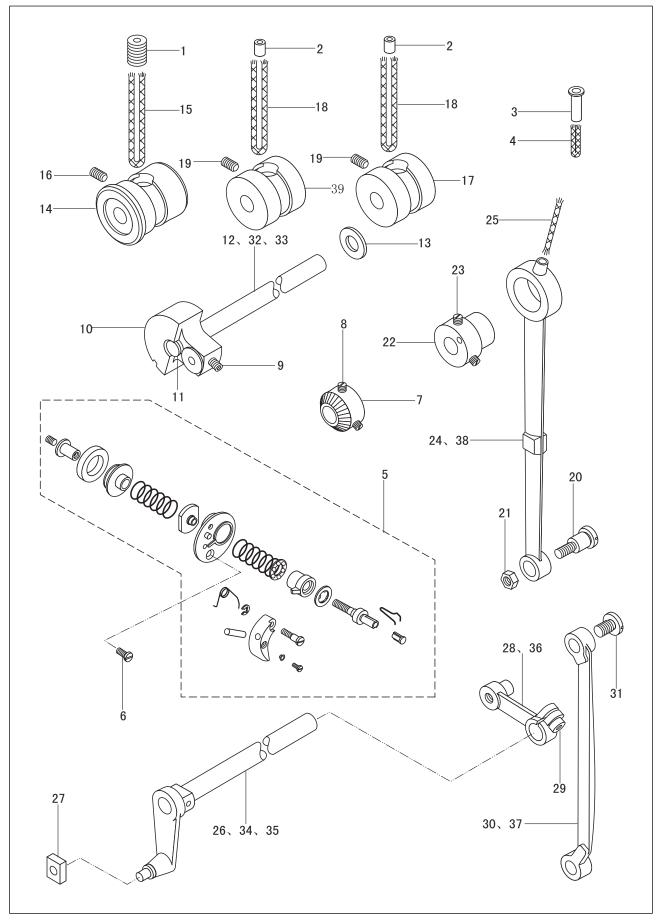
5. Feed adjustment components



5. Feed adjustment components

No.	Parts No	. Name	1245	Q t	у. HL14	HL30	Remarks
1	71WD9 047	F 1					
1	71WF3-047	Feed cam	1	1	1	1	
2	22T2-005B3	Screw	2	2	2	2	
3	71WF3-048	Feed crank	1	1	1	1	
4	71,000 040	Screw	2	2	2	2	
5	71WF3-049	Link stud	1	1	1	1	
6	71WF9 050	Screw	1	1	1	1	
7	71WF3-050	Stitch length label	1	1	1	1	
8	71WD9 051	Screw	2	2	2	2	
9	71WF3-051	Stitch length bracket	1	1	1	1	SM1/4" 40
10	71WD0 050	Screw	2	2	2	2	
11	71WF3-052	Stitch length adjusting brace		1	1	1	GB70-M5 12
12	71WF3-053	Stud	1	1	1	1	
13	71WF3-054	Stop bushing	1	1	1	1	GB77-M4 5
14	71WF3-055	Adjusting bar	1	1	1	1	
15	71WF3-056	Spring	1	1	1	1	GB68-M3 8
16	71WF3-057	Screw	1	1	1	1	
17	71WF3-058	Washer	1	1	1	1	GB70-M6 16
18	51 , 100 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Nut	1	1	1	1	
19	71WF3-059	Sliding shaft	1	1	1	1	
20		Oil wick	1	1	1	1	
21	71WF1-013	Filter	1	1	1	1	
22	71WF3-060	Screw	1	1	1	1	
23	71WF3-061	Sliding guide	1	1	1	1	
24	71WF3-062	Feed link	1	1	/	/	
25	71WF3-063	Spring	1	1	1	1	GB6172-86 M6
26	71WF3-064	Spring hook	1	1	/	/	
27		Screw	1	1	1	1	
28	71WF3-013	Crank stud	1	1	1	1	
29	71WF3-014	Nut	1	1	1	1	
30	71WF2-027	0il tube	1	1	1	1	
31		Oil wick	1	1	1	1	
32	71WF2-028	0il tube	1	1	1	1	
33		Oil wick	1	1	1	1	
34	99WF3-005	Feed link	/	/	1	1	GB70-85 M6 10
35	99WF3-006	Spring hook	/	/	1	1	
							SM17/64" 28

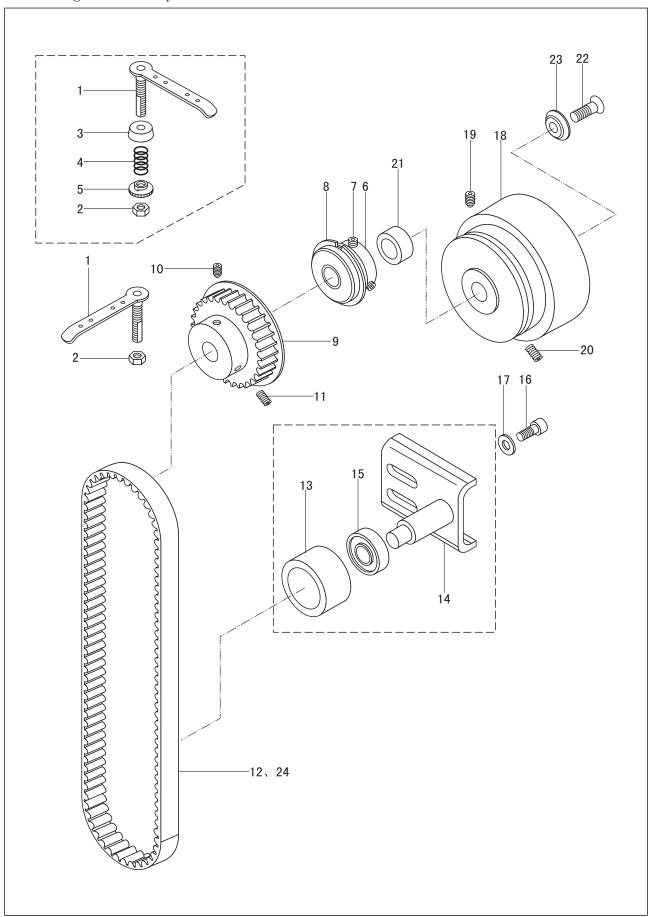
6. Upper shaft and rocking shaft components



6. Upper shaft and rocking shaft components

No.	Parts No	. Name	10.15		у.		Remarks
110	1 41 65 116		1245	-V	HL14	HL30	Tromat II b
		0.1					
1	71WF2-029	Oil plug	1	1	1	1	
2	71WF2-030	Oil plug	1	1	1	1	
3	71WF2-027	Oil pipe	1	1	1	1	
4		Oil wick	1	1	1	1	
5	71WF2-034		1	1	1	1	
6		Screw	1	1	1	1	GB68-M4 8
7	71WF2-035	Friction wheel	1	1	1	1	GD00 M4 0
8	13WF1-027	Screw	2	2	2	2	
9		Screw	2	2	2	2	M6 0 .75
10	71WF1-012	Needle bar crank	1	1	1	1	GB77-M6 5
11	71WF1-013	Oil plug	1	1	1	1	
12	71WF1-014	Upper shaft	1	1	/	/	
13	71WF1-015	Washer	1	1	1	1	
14	71WF1-016	Upper shaft bushing(front)	1	1	1	1	
15		Oil wick	1	1	1	1	
16		Screw	1	1	1	1	
17	71WF1-017	Upper shaft bushing(middle)	1	1	1	1	
18		Oil wick	1	1	1	1	GB77-M6 8
19		Screw	1	1	1	1	
20	71WF3-078	Screw	1	/	1	1	
21	71WF3-079	Nut	1	/	1	1	GB77-M6 8
22	71WF3-080	Feed dog lift cam	1	/	1	1	ODIT MO O
23	71WF3-081	Screw	2	/	2	2	CW11 /CA" 0 0
24	71WF3-082	Feed dog lift link	1	/	/	/	SM11/64" 2 8
25		Oil wick	1	/	1	1	
26	71WF3-001	Rocking shaft assembly	1	1	/	/	
27	71WF3-002	Slide block	1	1	1	1	
28	71WF3-009	Rocking shaft driving cam	1	1	/	/	
29		Screw	1	1	1	1	
30	71WF3-010	Rocking shaft link	1	1	/	/	
31	71WF3-011	Screw	1	1	1	1	
32	99WF1-001	Upper shaft	/	/	1	/	
33	100WF1-001	Upper shaft	/	/	/	1	GB70-M8 1 6
34	99WF3-001	Rocking shaft assembly	/	/	1	/	
35	100WF3-001	Rocking shaft assembly	/	/	/	1	SM17/64" 3 2
36	99WF3-002	Rocking shaft driving cam	/	/	1	1	
37	99WF3-003	Rocking shaft link	/	/	1	1	
38	99WF3-009	Feed dog lifting link	/	/	1	1	
39	100WF1-003	Upper shaft bushing(middle)	/	/	/	1	

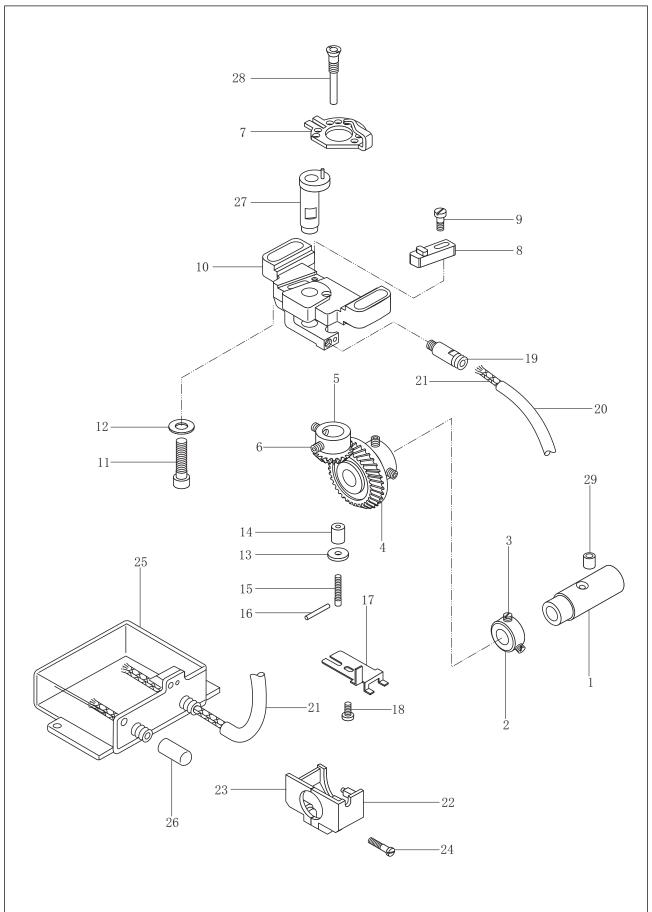
7. Timing belt components



7. Timing belt components

No.	Parts No	. Name	1015		у.		Remarks
			1245	-V	HL14	HL30	TOMOT IND
1	71WF2-014	Thread guide bar assembly	1	1	1	1	
2		Nut	1	1	1	1	
3	71WF2-015A	Thread tension disc	1	1	1	1	
4	71WF2-015B	Thread tension spring	1	1	1	1	
5	71WF2-015C	Thread tension nut	1	1	1	1	
6	71WF1-018	Collar	1	1	1	1	
7	19WF3-005	Screw	2	2	2	2	
8		Bearing	1	1	1	1	
9	71WF1-019	Timing pulley assembly	1	1	1	1	GB6170-M6
10		Screw	1	1	1	1	
11		Screw	1	1	1	1	
12		Timing belt	1	1	/	/	
13	71WF1-021A	Tension wheel	1	1	1	1	
14	71WF1-021B	Tension wheel bracket	1	1	1	1	M6 0 .75
15		Bearing	1	1	1	1	6002-2ZNR 15 32 9
16		Screw	2	2	2	2	
17		Washer	2	2	2	2	GB78-M6 0 .75
18	71WF1-022	Hand wheel	1	1	1	1	GB77-M6 0 .75
19		Screw	1	1	1	1	270Н063
20		Screw	1	1	1	1	
21	71WF1-023	Collar	1	1	1	1	
22		Screw	1	1	1	1	6000-2Z
23	71WF1-024	Washer	1	1	1	1	GB70-M5 1 2
24		Timing belt	/	/	1	1	GB97. 1-5
							GB78-M6 0 .75
							GB77-M6 0 .75
							UD11 MO 0 .15
							GB68-M6 2 0
							285Н063

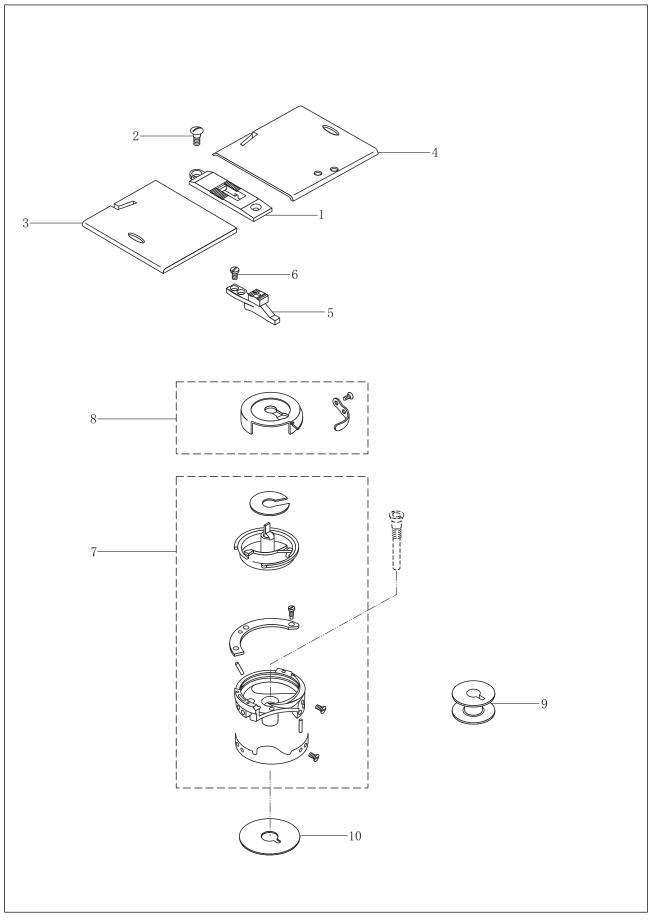
8. Rotating hook saddle components



8. Rotating hook saddle components

No.	Parts No	. Name	1245	Q t	у.	HL30	Remarks
1	71WF1-028	Lower shaft bushing(front)		v 1	1 1L14	1 1	
2	71WF1-028	Collar	1	1	1	1	
3	22WF4-005	Screw	2	2	2	2	
4	71WF1-032	Lower shaft gear	1	1	1	1	
5	71WF1-033	Rotating hook gear	1	1	1	1	
6	19WF3-005	Screw	4	4	4	4	
7	71WF1-034	Hook opener	1	1	1	1	
8	71WF1-035	Adjusting plate assembly	1	1	1	1	
9		Adjusting screw	1	1	1	1	
10	71WF1-036	Rotating hook saddle	1	1	1	1) (T
11		Screw	2	2	2	2	M5
12	71WF1-037	Washer	2	2	2	2	
13	71WF1-038	Oil felt(1)	1	1	1	1	MC 0 75
14	71WF1-039	0il felt(2)	1	1	1	1	M6 0.75
15	71WF1-040	Screw bar	1	1	1	1	
16		Pin	1	1	1	1	CDGE WA O
17	71WF1-041	Cover plate	1	1	1	1	GB65-M4 8
18		Screw	1	1	1	1	GB70-85 M6 25
19	71WF1-042	Joint	1	1	1	1	GD70-00 MO 20
20	71WF1-043	Oil pipe	1	1	1	1	
21		Oil wick	1	1	1	1	
22	71WF1-044	Gear cover(1)	1	1	1	1	
23	71WF1-045	Gear cover(2)	1	1	1	1	GB879-86 1 16
24		Screw	1	1	1	1	GD013 00 1 10
25	71WF1-047	Oil box	1	1	1	1	GB65-M4 8
26	71WF1-049	Oil hole cover	1	1	1	1	obco mi
27	71WF1-061	Rotating hook shaft	1	1	1	1	
28	71WF1-062	Screw	1	1	1	1	ф3 L=400
29	71WF2-030	Oil plug	1	1	1	1	
							GB65-M4 14

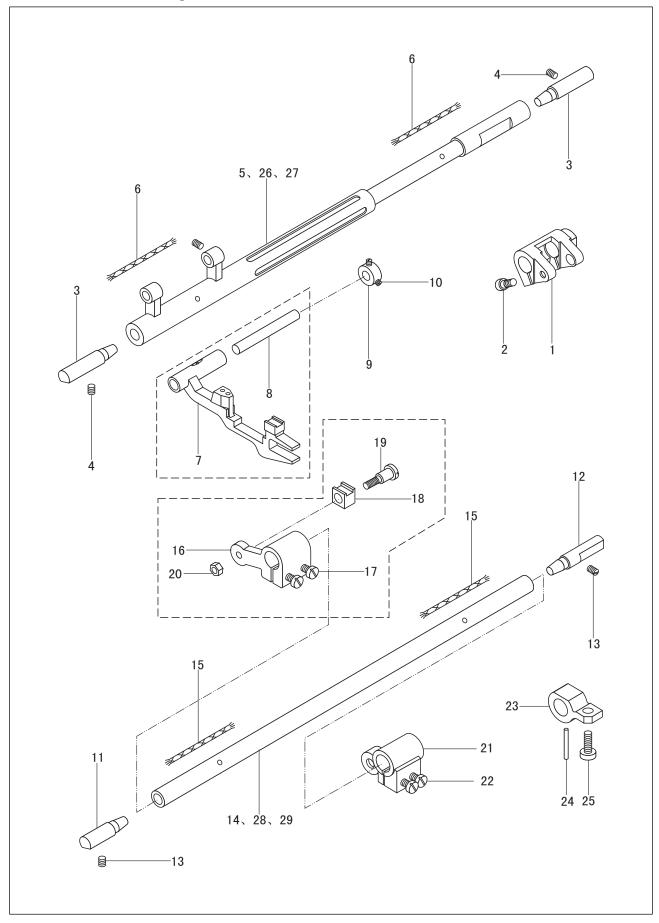
9. Needle plate and hook components



9. Needle plate and hook components

No.	Parts No	. Name	1245	Q t	HL14	HL30	Remarks
1	71WF2-017	Needle plate	1243	/	1	1	
	77WF7-001	Needle plate	/	1	/	/	
2	71WF2-018	Screw	2	2	2	2	
3	71WF2-019	Slide plate(left)	1	1	1	1	
4	71WF2-020	Slide plate(right)	1	1	1	1	
5	71WF3-070	Feed dog	1	/	1	1	
	77WF7-003	Feed dog	/	1	/	/	
6	Јо. 0. 50	Screw	2	2	2	2	
7		Rotating hook assembly	1	1	1	1	
8		Bobbin cap	1	1	1	1	SM11/64" 40
9	71WF1-046	Bobbin	1	1	1	1	,
10	71WF1-060	Washer	1	1	1	1	
							SM1/8" 44
							LRT1242-R
							SCP545

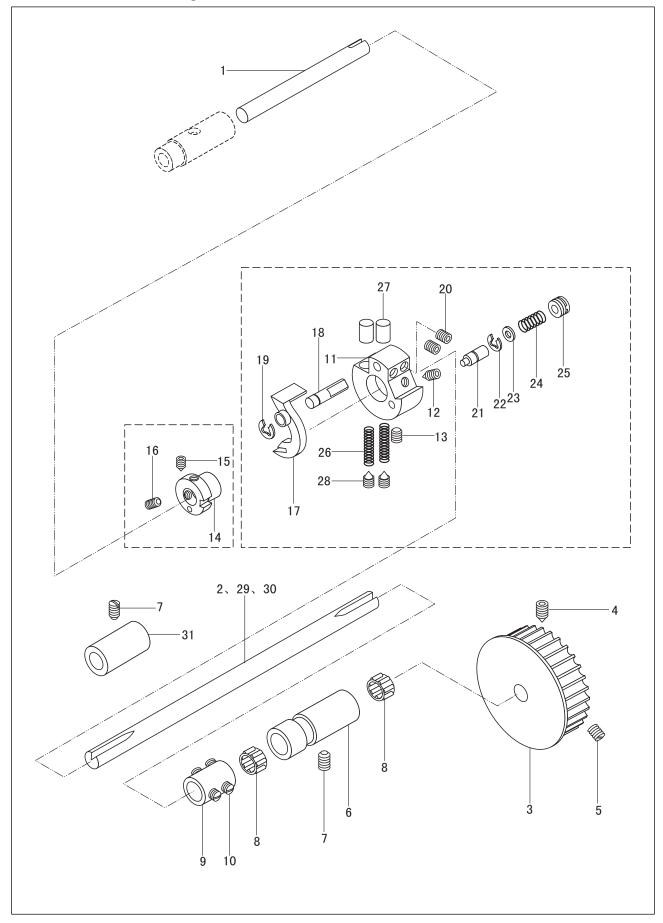
10. Lower feed components



10. Lower feed components

No.	Parts No	. Name	1245	Q t	у.	HL30	Remarks
1	71WF3-012	Feed shaft crank	1	1	1	1	
2		Screw	2	2	2	2	
3	71WF3-065	Feed shaft set pin	2	2	2	2	
4		Screw	2	2	2	2	
5	71WF3-066	Feed shaft	1	1	/	/	
6		Oil wick	2	2	2	2	
7	71WF3-067	Feed dog supporter	1	1	1	1	
8	71WF3-068	Hinge pin	1	1	1	1	GB65-M5 10
9	71WF3-069	Collar	1	1	1	1	
10		Screw	2	2	2	2	GB77-M6 8
11	71WF3-071		1	1	1	1	
12	71WF3-065	Feed dog lifting shaft set pin(front)	1	1	1	
13		Feed Wog lifting shaft set pin(2	2	2	
14	71WF3-072	Feed dog lifting shaft	1	1	/	/	
15		Oil wick	2	2	2	2	
16	71WF3-073	Feed dog lifting cam	1	1	1	1	GB77-M5 4
17		Screw	2	2	2	2	
18	71WF3-074	Slide block	1	1	1	1	
19	71WF3-075	Screw	1	1	1	1	GB77-M6 8
20	71WF3-076	Nut	1	1	1	1	
21	71WF3-077	Feed dog lifting shaft cran	k 1	/	1	1	
22		Screw	2	/	2	2	
23	77WF7-005	Crank	/	1	/	/	GB65-M5 12
24	77WF7-006	Pin	/	1	/	/	
25		Screw	/	1	/	/	
26	99WF3-007	Feed shaft	/	/	1	/	SM11/64" 32
27	100WF3-002	Feed shaft	/	/	/	1	
28	99WF3-008	Feed dog lifting shaft	/	/	1	/	
29	100WF3-003	Feed dog lifting shaft	/	/	/	1	
							GB70-85-M6 16

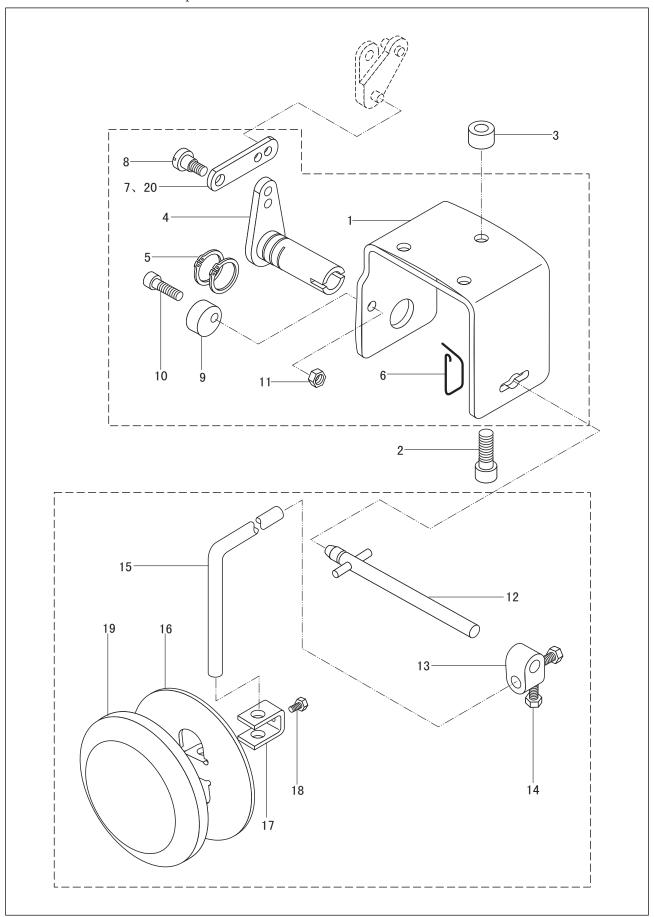
11. Lower shaft components



11. Lower shaft components

No.	Parts No	. Name	1045		у.	111.00	Remarks
1	71WF1-025	Lower shaft(front)	1245 1	-V 1	HL14 1	HL30 1	
$\begin{bmatrix} 1 \\ 2 \end{bmatrix}$	71WF1-025 71WF1-026	Lower shaft (rear)	1	1	1 /	/	
3	71WF1-020	Timing pulley assembly	1	1	1	1	
4	71WFT 027	Screw	1	1	1	1	
5		Screw	1	1	1	1	
6	71WF1-029	Lower shaft bushing(rear)	1	1	1	1	
7	11111 025	Screw	1	1	1	1	
8		Bearing	2	2	2	2	
9	71WF1-030	Collar	1	1	1	1	
10	13WF1-027	Screw	4	4	4	4	
11	71WF1-050	Saftety clutch body	1	1	1	1	
12	11,111 000	Screw	1	1	1	1	GB78-M6 0.75
13		Screw	1	1	1	1	GB77-M6 0.75
14	71WF1-051	Safety clutch cam	1	1	1	1	
15	11,111 001	Screw	1	1	1	1	GB77-M6 8
16		Screw	1	1	1	1	Ф10 Ф13 9.7
17	71WF1-052	Spring plate	1	1	1	1	
18	71WF1-053	Pin	1	1	1	1	
19	11111 000	Split ring	1	1	1	1	
20		Screw	2	2	2	2	GB78-M6 0.75
21	71WF1-054	Stop pin	1	1	1	1	GB77-M6 0.75
22		Split ring	1	1	1	1	
23	71WF1-055	Washer	1	1	1	1	GB78-M6 0.75
24	71WF1-056	Spring	1	1	1	1	GB77-M6 0.75
25	71WF1-057	Screw	1	1	1	1	
26	71WF1-058	Spring	2	2	2	2	
27	71WF1-059	Spring bushing	2	2	2	2	GB896-86 4
28		Screw	2	2	2	2	GB77-M5 6
29	99WF1-002	Lower shaft(rear)	/	/	1	/	
30	100WF1-002	Lower shaft(rear)	/	/	/	1	GB896-86 3
31	100WF1-004	Lower shaft bushing(middle)	/	/	/	1	
							GB78-M6 0.75

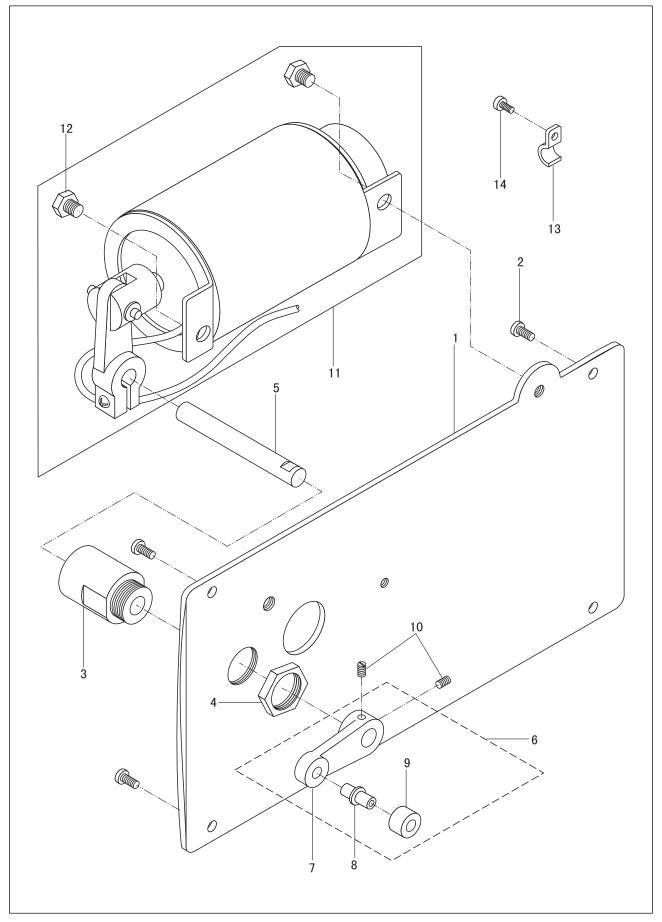
12. Knee lifter components



12. Knee lifter components

No.	Parts No	. Name	10.15		у.		Remarks
			1245	-V	HL14	HL30	TO MOT IIO
1	71WF4-025	Knee lifter bar bracket	1	1	1	/	
2		Screw	3	3	3	/	
3	71WF4-026	Washer	3	3	3	/	
4	71WF4-027	Knee lifter crank assembly		1	1	/	
5		Spring	2	2	2	/	
6	71WF4-028	Spring	1	1	1	/	
7	71WF4-029	Knee lifter crank link	1	1	/	/	
8	71WF4-030	Screw	1	1	1	/	GB70-M8 25
9	71WF4-031	Stop block	1	1	1	/	
10		Screw	1	1	1	/	
11		Nut	1	1	1	/	GB894. 2-86 18
12	71WF6-001	Knee lifter shaft assembly	1	1	1	/	
13	71WF6-002	Knee lifter crank	1	1	1	/	
14	22T9-003B4	Screw	2	2	2	/	
15	22T9-003B2	Knee press bar	1	1	1	/	
16	22T9-003B5	Knee press plate	1	1	1	/	GB70-M6 20
17	22T9-003B6	Knee press rod bracket	1	1	1	/	GB6170-M6
18	22T9-003B7	Screw	1	1	1	/	
19	22T9-003B8	Knee press plate pad	1	1	1	/	
20	99WF4-005	Knee lifter crank link	/	/	1	/	SM5/16″ 18
							,

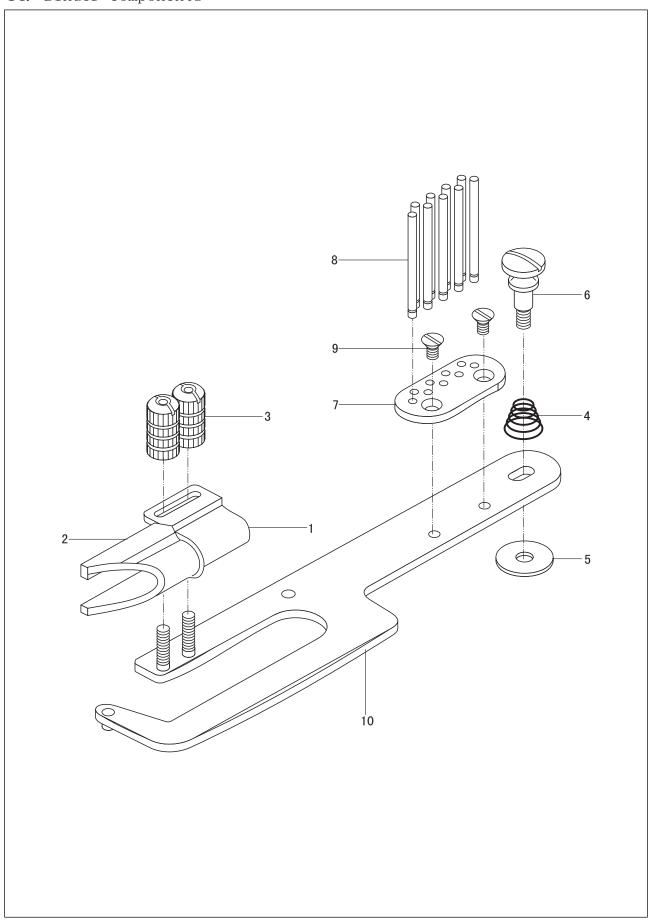
13. Automatic presser foot lifter components



13. Automatic presser foot lifter components

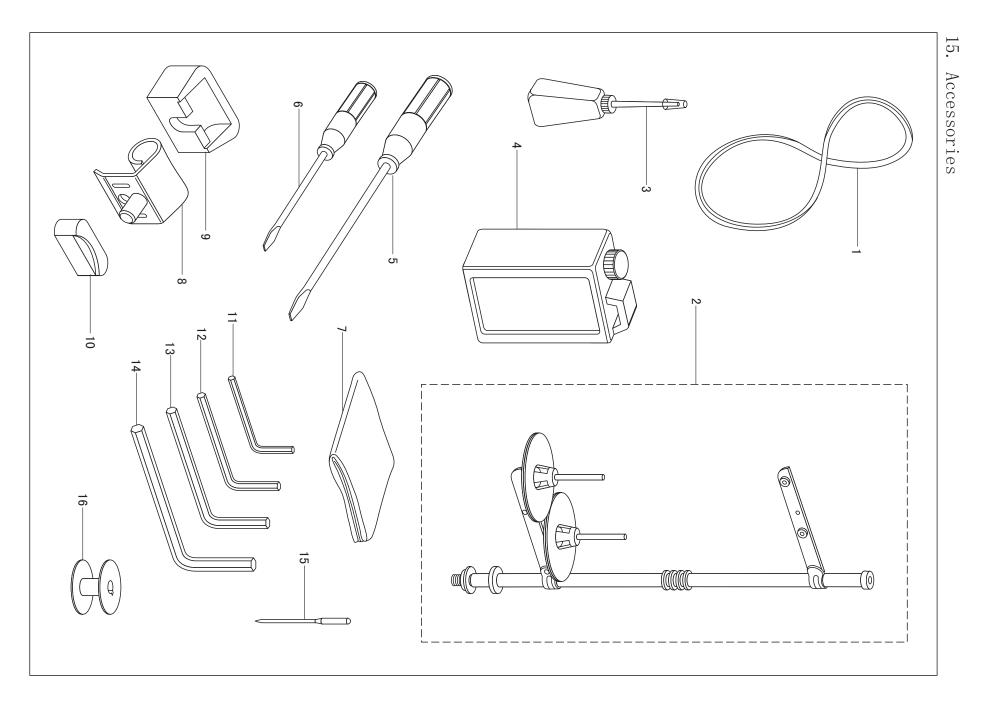
No.	Parts No	. Name			у.	I	Remarks
			1245	-V	HL14	HL30	Remains
1	100WF4-002	Set plate	/	/	/ /	1	
2 3	100WE4 002	Screw	/	/	/	4	
	100WF4-003	Hinge shaft bushing Nut	/	/	/	1	
4 5	100WF4-004	Hinge shaft	/	/	/	1	
	100WF4-004 100WF4-005	Presser foot lifter crank assem	.1,, /	/	/	1	
7	100WF4-005 100WF4-005A	Presser foot lifter crank assemble Presser foot lifter crank		/	/	1	
	20T3-009B2	Roller shaft	/	/	/	1	
9	17T2-002	Roller	/	/	/	1 1	GB67-M5 8
	2KT5-036b	Screw	/	/	/	2	anaaa aa waa 15
11	ZK15 0500	Presser foot lifter solenoid	/	/	/	1	GB808-88 M18 15
12	100WF4-006	Screw	/	/	/	2	
	2KT5-040	Wire clamp	/			2	
	2KT6-017	Screw	/	/	/	2	
14	ZK10 017	SCI ew	/	/	/		
							CM11/G4" 4 0
							SM11/64" 4 0
							M8 7
							1406747-101
							SM9/64" 4 0
							3M9/04 4 0
						L	

14. Binder Components



14. Binder Components

No.	Parts No	. Name			у.		Remarks
			1245	-V	HL14	HL30	Romai Ro
1	77WF7-007A	Base	/	1	/	/	
2 3	77WF7-007B	Cover	/	1	/	/	
	77WF7-007C	Nut	/	2	/	/	
4	77WF7-008	Spring	/	1	/	/	
5	77WF7-009	Spacer	/	1	/	/	
6	77WF7-010	Screw	/	1	/	/	
7	77WF7-011A	Set plate	/	1	/	/	
8 9	77WF7-011B	Pin	/	9	/	/	
	77WF7-011C	Screw	/	2	/	/	
10	77WF7-012	Bracket	/	1	/	/	



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15. Accessories

No.	Parts No	. Name			ty.	Remarks	
	rarts NO		1245	-V	HL14	HL30	Vellat V2
1		V-belt	1	1	1	1	
2	4F-007	Thread stand assembly	1	1	1	1	
3	33TF-011	Oil pot	1	1	1	1	
4	1F-009	Oil tank	1	1	1	1	
5	33TF-013	Screwdriver(middle)	1	1	1	1	
6	33TF-014	Screwdriver(small)	1	1	1	1	
7	1F-013	Machine head cover	1	1	1	1	
8	71WF5-009	Machine head hinge	2	2	2	2	
9	71WF5-010	Cushion	2	2	2	2	
10	71WF5-011	Rubber pad	2	2	2	2	
11		Hexagonal wrench	1	1	1	1	
12		Hexagonal wrench	1	1	1	1	
13		Hexagonal wrench	1	1	1	1	
14		Hexagonal wrench	1	1	1	1	
15		Needle	3	3	3	3	
16	71WF1-046	Bobbin	6	6	6	6	
							S=2.5mm
							S=3mm
							S=4mm
							S=5mm
							DD 05 150
							DP 35 150

W1-1245 -HL14 // -HL30



This machine may only be operated by adequately trained operators only after having completely read and understood the instruction manual.

Parts are subject to changes in design without prior notice.











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