



4210SW

INDUSTRIAL SEWING MACHINE

INSTRUCTION MANUAL

CONTENT

Operation Instructions	
1. Brief introduction	1
2. Main specifications	
3. Installation.	
4. Installing the oil box	2
5. Adjusting the tension of the belt	
6. Installing the belt cover	
7. Lubrication	
8. Installing the needle	
9. Installing the bobbin case	4
10. Installing the winding guider	
11. Winding the bobbin thread	
12. Threading	
13. Adjusting the stitch length	
14. Adjusting the thread tension	
15. Adjusting the thread take-up spring	6
16. Presser foot lifter	6
17. Adjusting the pressure of the presser foot	6
18. Relationship between needle and rotating hook	6
19. Adjusting the alternating amount of presser foot	7
20. Sewing speed list	7
21. Troubleshooting	7
Parts Manual	
1. Arm and bed	
2. Upper shaft and thread take-up mechanism	
3. Needle bar vibrating parts	
4. Upper feed parts	
5. Feed mechanism	
6. Lower shaft mechanism	
7. Thread tension and bobbin thread winder parts	
8. Knee lifter mechanism	
9. Lubrication	24-25 26-27
10 Accessories	/n-//

1. Brief introduction

Machine adopts compound feed and special feeding mechanism, which can ensure smooth feeding, low noise, and beautiful stitch seam. It is constructed with slide link thread take-up, horizontal large rotating hook, and synchronized belt driving system, which ensures high speed, but lower noise.

This machine is suitable for sewing the heavy materials of car seat, sofa, tarpaulins, tents, bag, etc.

3. Installation (Fig.1)

1.Installation of the table connecting hook bracket and rubber cushion.

Fix the connecting hook bracket ① and the rubber cushion ② on the table by screw ③.

2.Installing the oil reservoir.

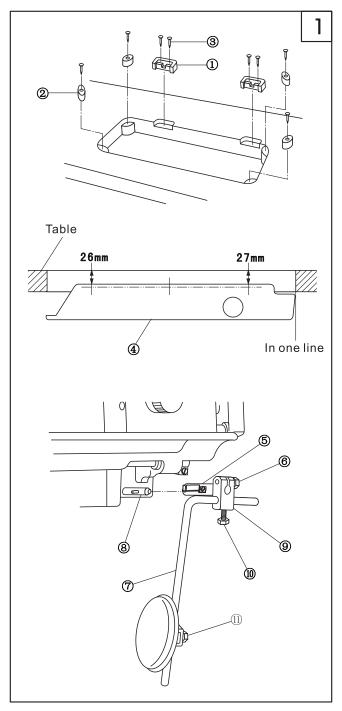
Set the oil reservoir ④ onto the table by six screws as shown in the Fig.1.

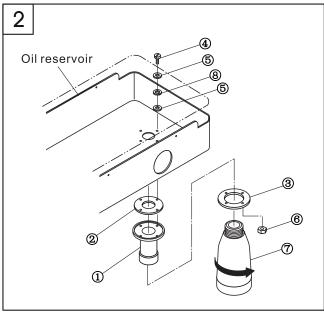
3.Install the knee control connector ⑤, knee control lift crank ⑨ and bent bar ⑦ according to the direction of the knee control lift bar shaft ⑧.

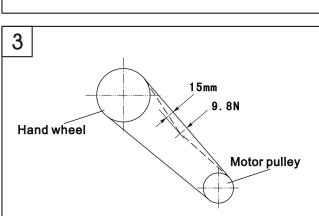
4. Adjust the direction of part (6), (11) by set screw.

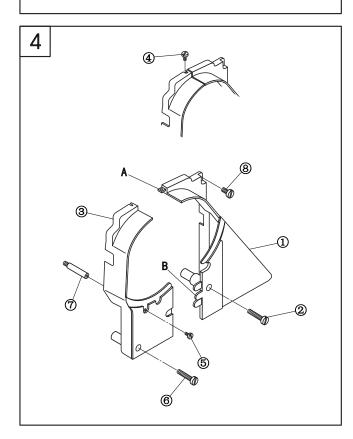
2. Main specifications

Application	Medium and heavy duty
Max. sewing speed	2000 s.p.m
Max. stitch length	9mm
Needle bar stroke	36mm
Needle	DP*17 (Nm125-Nm180) standard Nm160 (23#)
Lubrication	Semi-lubrication
Hook	Large hook
Height of presser foot lift	9mm by hand, 16mm by knee
Motor	550W Servo motor









4. Installing the oil pot (Fig. 2)

1.Install the bolt ①, oil seal ② and spacer ③ onto the oil reservoir, and then put the cushion ⑤ and spacer ⑧ into the set screw ④, then set it by nut ⑥.

2. Tighten the oil pot ⑦ onto the bolt ①.

5. Adjusting the tension of the belt (Fig.3)

When adjusting the tension of the belt, please adjust the height of the motor, and press down the middle of the belt with the force of 9.8N. There should be a slack of 15mm.

Note: Please turn off the motor before adjustment.

6. Installing the belt cover (Fig.4)

1. Tighten the column ⑦ into the screw hole on the machine head.

2.Install the belt cover (right) ① on the machine head by set screw ② and ⑧.

3.Connect the belt cover (left) ③ to the claw AB of the belt cover (right) ①.

4. Tighten the belt cover (left) 3 by set screws 4, 5 and 6.

Note: After installing the belt cover, make sure that the belt cover is not touch with the belt and hand wheel.

7. Lubrication (Fig.5)

- 1.Face plate lubrication
- a.Loosen the face plate screw;
- b. Open the face plate ① in the direction of the arrow;
- c.Lubricate the place as the arrow shows every day;
- d.Close the face plate;
- e. Tighten the screw.

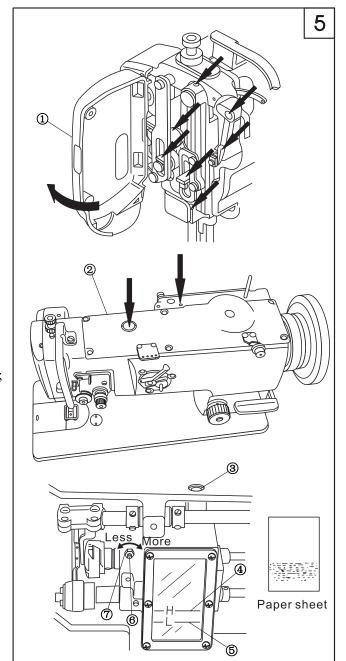
2. Machine body lubrication

a.Lubricate the place as the arrows indicate every day; b.When run the machine for the first time or run it again after a long period of non-use, please oil the place as the arrows indicate. Besides, take down the top cover ②, then oil each felt and oil wick.

3. Rotating hook lubrication

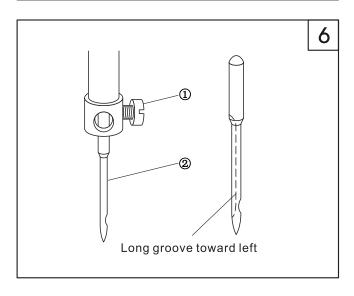
- a.Add the oil from oil hole ③ until it reaches the red line
- 4. Check it one time a day. If the oil is under the red line
- (5), it should be refilled.
- b. When adjusting the oil amount of the rotating hook, loosen the nut ⑦, and then adjust it by adjusting screw
- ⑥. Turn it rightward, the amount of the oil can be increased; on the contrary, the amount can be reduced.

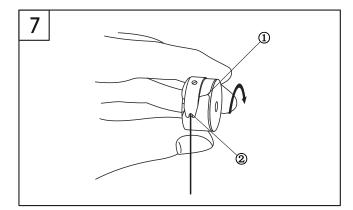
Note: Excess lubrication results in leaking.

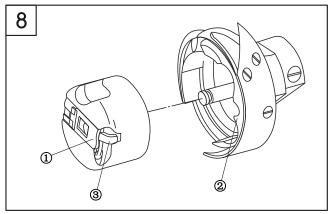


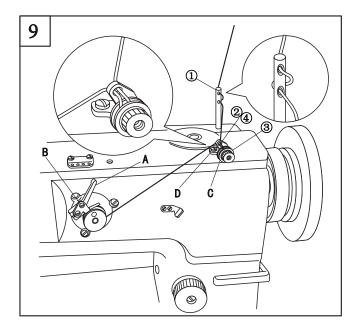
8. Installing the needle (Fig.6)

- 1. Turn the balance wheel to raise the needle bar to its highest position;
- 2.Loosen the set screw ② and make the long groove of the needle ① toward leftward;
- 3.Insert the needle into the bottom of the needle bar;
- 4. Tighten the set screw ②.









9. Threading the bobbin thread (Fig.7)

1. Insert the bobbin into the hook body, pass the thread through the thread hole ①, then pass down through the thread tension spring ②.

2.Draw the thread downward, then the bobbin will turn in the direction as the figure shows.

10. Installing the bobbin case (Fig. 8)

- 2. Align the bobbin case with the rotating hook shaft and then insert it. Align the inside of the rotating hook ② and the latch ③, then install the bobbin case by pressing it until "crack" occurs.

11. Winding the bobbin thread (Fig.9)

- 1. Thread in numerical order from ① to ④, then wind the bobbin winder.
 - 2.Press down the bar A.
- 3.Loosen the set screw B and adjust the adjusting plate until the winding amount reaches the 80% of the outside diameter.
- 4. When the winding is not smooth, move the winding guider C forward and backward, then set it by set screw D.
- 5. After winding, the winding bar A will separate and stop automatically.

12. Threading (Fig11)

Thread in the order as shown in Fig.

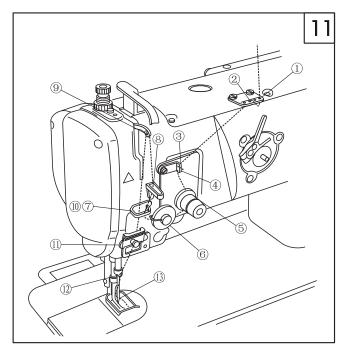


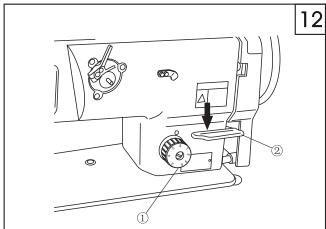
Turn the stitch length dial plate ① leftward and rightward to make the marker align with the required figure. Press down the reverse feed lever ② to start backward sewing, and release it to start normal sewing.

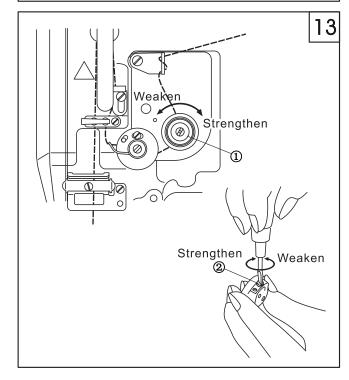
14. Adjusting the thread tension (Fig.13)

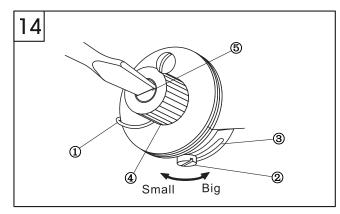
- 1. Adjusting the tension of the needle thread
 Turn the nut ① clockwise to increase the tension
 of the needle thread; on the contrary, to reduce the
 tension of the needle thread.
- 2. Adjusting the tension of the bobbin thread.

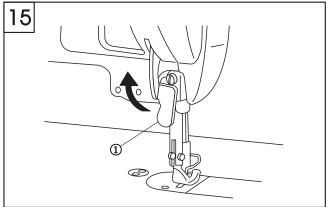
 Turn the screw ② clockwise to increase the tension of the bobbin thread, on the contrary, to reduce the tension of the bobbin thread.

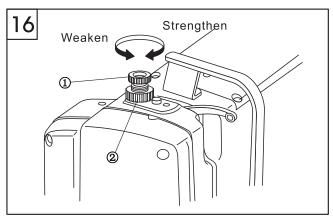


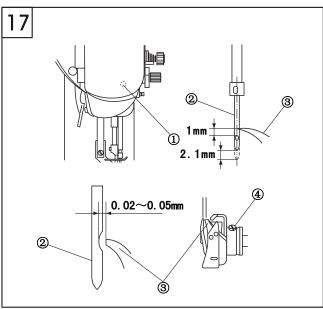












15. Adjusting the thread take-up spring (Fig.14)

1. Changing the swing range of the thread take-up spring

a.Loosen the set screw ②, move the stopper ③ leftward and rightward, then adjust the thread take-up spring ①.

b.Move the stopper rightward to increase the swing range of the thread take-up spring; on the contrary, to reduce the swing range of the thread take-up spring.

2. Changing the tension of the thread take-up spring Loosen the nut ④, turn the spring shaft ⑤ counter-clockwise to increase the tension; turn it clockwise to reduce the tension.

16. Presser foot lifter (Fig.15)

1. Stop the presser foot when it is lifted, lift the lifting bar ① in the direction of the arrow. When the presser foot is lifted by 9mm, then stop it.

2. When lowering the presser foot, put down the lifting bar ① to make the presser foot back to its original place.

17. Adjusting the pressure of the presser foot (Fig.16)

Turn the adjusting screw ① rightward to increase the pressure; turn it leftward to reduce the pressure. After adjustment, tighten the set nut ②.

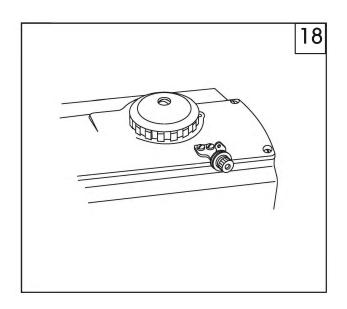
18. Relationship between needle and rotating hook (Fig.17)

- 1. Adjust the stitch length dial to 0.
- 2. Turn the balance wheel to lift the needle bar from its lowest position by 2.1mm. loosen the screw ①, adjust the distance between up end of the eye of needle ② and rotating hook point ③ to 1mm, then tighten it.
- 3. Turn the balance wheel to lift the needle bar from its lowest position by $2.1 \, \text{mm}$. Loosen the two set screws 4, turn the rotating hook, align the rotating hook point 3 with the center of the needle 2, then tighten the two screws 4.
- 4. Loosen the two set screws ④, move the rotating hook leftward and rightward. Align the rotating hook point ③ and the center of the needle ②, and adjust the clearance between rotating hook point and needle to 0.02-0.05mm, then tighten the screw.

19. Adjusting the alternating amount of presser foot (Fig.18)

Adjust the height of the presser foot for different thicknesses of work.

- 1. Turn the dial to the left to lower the presser foot.
- 2. Turn the dial to the right to raise the presser foot.



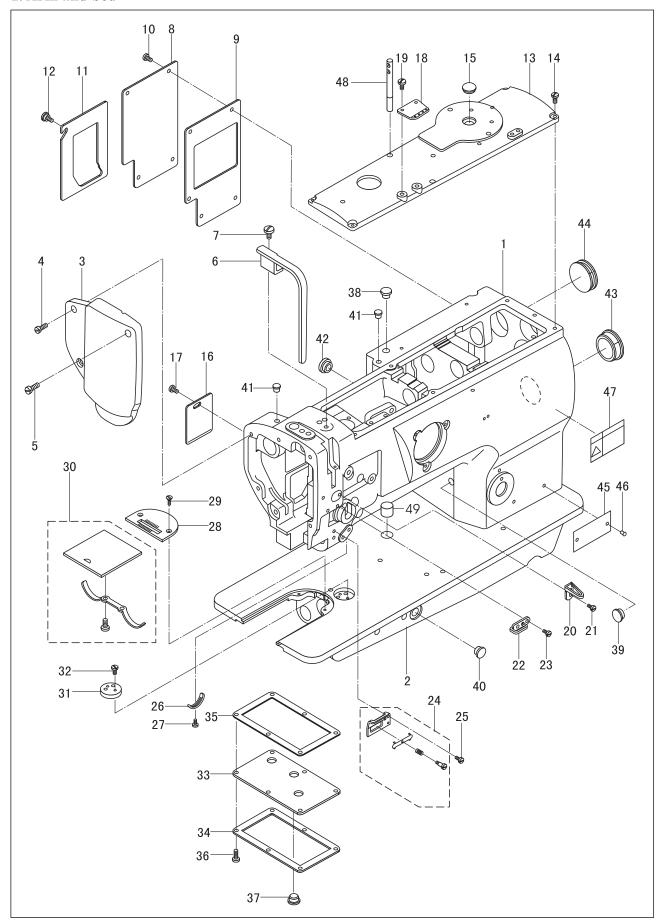
20. Sewing speed list

Altenating amount	Stitch less than 6mm	Stitch length between 6mm-9mm
Less than 3mm	2500s.p.m	2000s.p.m
Between 3~4mm	2000s.p.m	2000s.p.m
Between 4~6.5mm	1600s.p.m	1600s.p.m

21. Troubleshooting

Trouble	Possible cause	Remedy
1. Thread breaking (2-3mm thread left on the cloth)	 Damage on the rotating hook set groove of thread way, needle point, rotating hook point and needle plate. Too strong the needle thread tension Collision between needle and rotating hook. Too little the oil of the rotating hook Too weak the needle thread tension. Too strong the tension of the threaad take-up spring Over fast or slow the timing between needle and rotating hook 	1. Polish the damaged part with sand paper; rasp the middle rotating hook set groove with file. 2. Weaken the needle thread tension. 3. Refer to (19.Relationship between needle and rotating hook.) 4. Adjust the oil amount (Refer to7. Lubrication) 5. Increase the needle thread tension. 6. Weaken the tension of the thread take-up spring. 7. Refer to (19. Relationship between needle and rotating hook)
2. Puckering	1. Over fast or slow the timing between needle and rotating hook. 2. Too weak the pressure of the presser foot. 3. The clearance between the up end of the needle and the rotating hook is not right. 4. Wrong needle.	 Refer to (19. Relationship between needle and rotating hook). Tighten the pressr foot adjusting screw. Refer to (19.Relationship between needle and rotating hook.) Replace the needle.
3. Loose stitch	 Without threading the bobbin thread under the spring of the thread tension of the rotating hook body. Bad work on thread way. No movement of bobbin. Too weak the bobbin thread tension. Too strong the bobbin thread tension. Damage of the needle point. 	 Refer to (9.Threading the bobbin thread) Rast with sand paper or file. Replace the bobbin or rotating hook Increase the bobbin thread tension. Reduce the bobbin thread tension. Replace the needle.

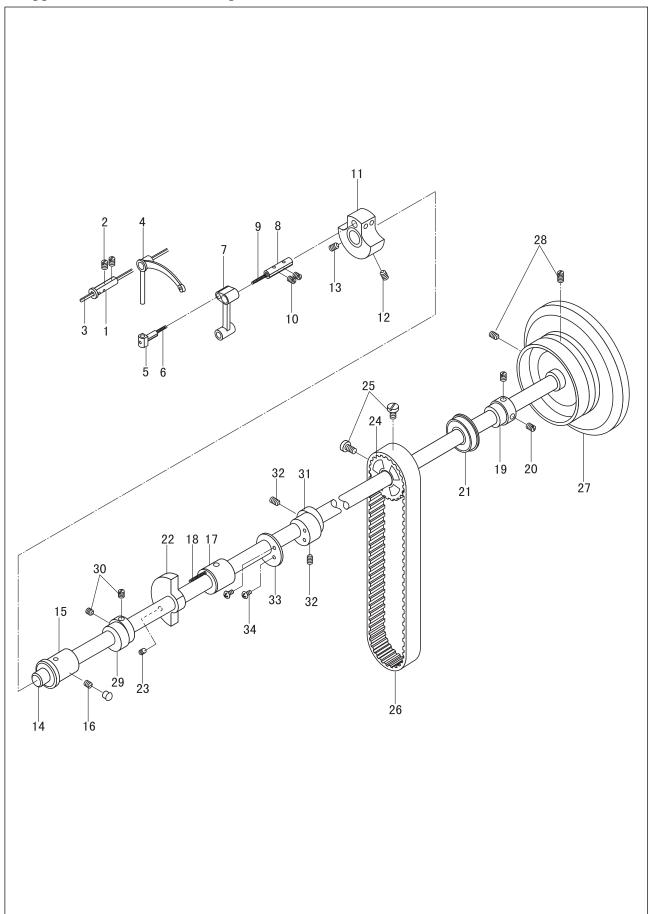
1. Arm and bed



1. Arm and bed

NO.	Part No	Name	Qua: 0605	ntity 0605A	Remark
1	92WF2-001	Arm	1	1	
2	110WF2-003	Bed	1	1	
3	92WF2-003	Face plate assembly	1	1	
4	1WF5-039	Screw (1)	2	2	$SM11/64"\times40$
5	37T2-210	Screw (2)	1	1	$SM15/64"\times28$
6	92WF2-004	Safety guard	1	1	5m10/01 /\20
7	13WF2-045	Screw	1	1	SM15/64"×28
8	92WF2-005	Side cover (1)	1	1	5M10/01 /\20
9	92WF2-006	Seal spacer	1	1	
10	1WF1-011	Screw	5	5	$SM11/64"\times40$
11	92WF2-007	Side cover (2)	1	$\begin{array}{c c} & 0 \\ 1 & \end{array}$	SM117 01 7 10
12	92WF2-008	Screw (2)	1	1	$SM11/64 \times 40$
13	92WF2-009	Upper cover	1	1	Sm11/ 01/(10
14	1WF1-011	Screw	6	6	$SM11/64"\times40$
15	17WF1-009	Rubber plug	1	1	SM11/ 01 / 10
16	92WF2-011	Small cover	1	1	
17	1WF1-011	Screw	1	1	SM11/64"×40
18	92WF2-012	Upper thread guide plate	1	1	SM11/04 //40
19	21WF1-062	Screw	2	2	$SM3/16" \times 32$
20	92WF2-013	Upper thread guide	1	1	5M5/10 / 52
21	36WF1-016	Screw	1	1	$SM9/64"\times40$
22	92WF2-014	Middle thread guide	1	1	5m3/ 01 / 10
23	1WF1-007	Screw	2	2	$SM9/64"\times40$
24	92WF2-015	Lower thread guide assembly	1	1	5m3/ 61 / 10
25	1WF1-007	Screw	1	1	$SM9/64"\times40$
26	50WF2-022	Position plate	1	1	Sm3/ 01 / 10
27	1WF1-026	Screw	1	1	$SM9/64"\times40$
28	92WF2-016	Needle plate	1	1	
29	36WF3-004	Screw	2	2	$SM11/64"\times40$
30	008035C	Slide plate assembly	1	1	
31	92WF2-017	Clamp holder	1	1	
32	36T5-008E5	Screw	2	2	$SM11/64"\times40$
33	92WF2-022	Oil screen	1	1	·
34	92WF2-023	Presser plate	1	1	
35	92WF2-024	Seal spacer	1	1	
36	22T6-008D3	Screw	6	6	$SM11/64 \times 40$
37	92WF2-028	Rubber plug	3	3	·
38	92WF2-028	Rubber plug	1	1	
39	92WF2-028	Rubber plug	1	1	
40	92WF2-028	Rubber plug	1	1	
41	92WF2-029	Rubber plug	2	2	
42	92WF2-030	Rubber plug	1	1	
43	92WF2-031	Rubber plug	1	1	
44	92WF2-032	Rubber plug	1	1	
45	92WF2-034	Model label	1	/	
	110WF2-034	Model label	/	1	
46		Rivet	2	2	GB827 2×5
47	7WF4-019A	Safety caution label	1	1	
48	92WF2-037	Upper thread guide bar	1	1	
49	92WF2-038	plug	1	/	

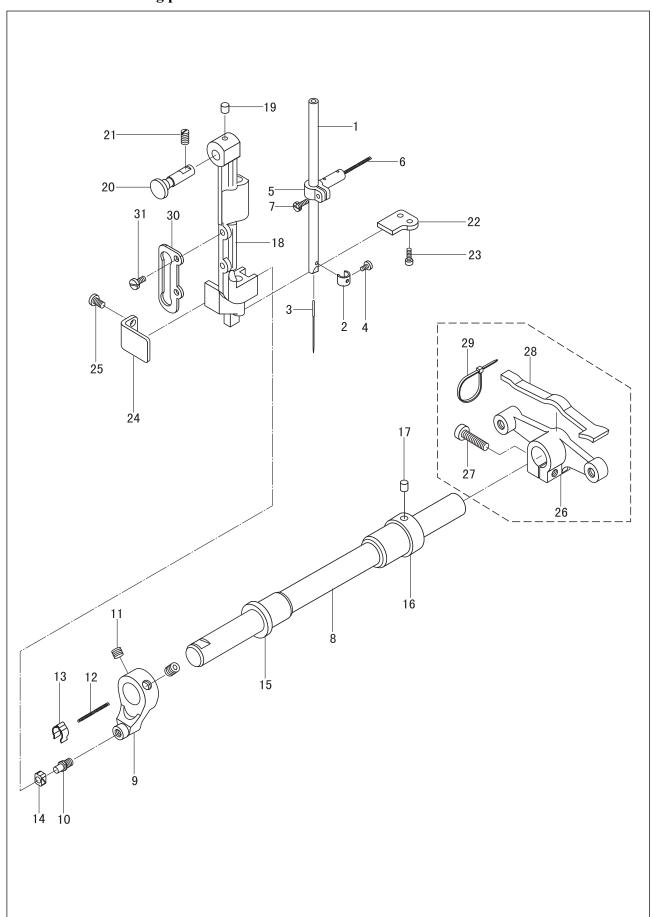
2. Upper shaft and thread take-up mechanism



2. Upper shaft and thread take-up mechanism

NO.	Part No	Name	Qua 0605	ntity 0605A	Remark
1	16WF1-010	Thread take-up lever pin shaft	1	1	103530
2	1WF5-019	Screw	2	2	SM15/64"×28
3		Oil wick	1	1	φ2.5×155
4	92WF1-004	Thread take-up lever	1	1	
5	92WF1-005	Slide block	1	1	
6		Oil wick	1	1	
7	92WF1-006	Needle bar link	1	1	
8	50WF1-008	Needle bar crank pin	1	1	
9		Oil wick	1	1	
10	1WF5-019	Screw	2	2	$SM15/64"\times28$
11	92WF1-007	Needle bar crank	1	1	
12	20T2-007	Screw	1	1	$SM9/32" \times 28$
13	50WF1-013	Screw	1	1	$SM9/32" \times 28$
14	92WF1-008	Upper shaft	1	1	
15	92WF1-009	Upper shaft front bushing	1	1	
16	1WF5-019	Screw	1	1	$SM15/64"\times28$
17	92WF1-010	Upper shaft middle bushing	1	1	
18		Oil wick	1	1	φ2×120
19	92WF1-011	Bearing bushing	1	1	
20	57WF-009	Screw	2	2	M6
21	36WF3-019A	Upper bearing	1	1	6005-2ZNR
22	92WF1-012	Balance block	1	1	
23	50WF1-004	Screw	2	2	$SM15/64"\times28$
24	92WF1-013	Synchronized pulley assembly	1	1	
25	92WF1-014	Screw	2	2	$SM1/4"\times40$
26	92WF1-034	Sychronized belt	1	1	540-8YU-15
27	92WF1-015	Hand wheel	1	1	
28	1WF5-019	Screw	2	2	$SM15/64"\times28$
29	92WF3-014	Lift eccentric cam	1	1	
30	1WF2-010	Screw	2	2	$SM1/4"\times40$
31	92WF3-029	Feed eccentric cam	1	1	
32	1WF2-010	Screw	2	2	$SM1/4"\times40$
33	92WF3-030	Retaining block	1	1	
34	7WF5-017	Screw	2	2	$SM11/64"\times40$

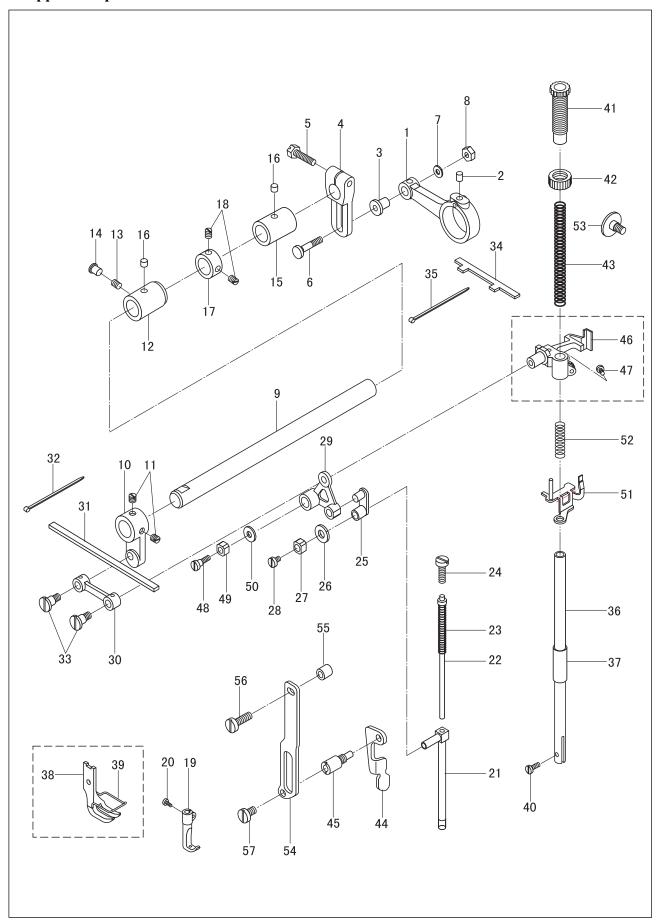
3. Needle bar vibrating parts



3. Needle bar vibrating parts

NO.	Part No	Name	Qua 0605	ntity 0605A	Remark
1	50WF1-001	Needle bar	1	1	
2	92WF1-003	Needle bar thread guide	1	1	
3	92WF1-032	Needle	1	1	
4	22T2-017	Screw	1	1	DP×17
5	50WF1-003	Needle bar adapter	1	1	$SM1/8" \times 44$
6		Oil wick	1	1	
7	22WF3-014	Screw	1	1	
8	92WF3-001	Vibrating shaft	1	1	$SM9/64"\times40$
9	92WF3-002A	Crank	1	1	
10	92WF3-002B	Crank pin	1	1	
11	92WF3-070	Screw	2	2	
12		Oil felt	1	1	GB/T80 M8×8
13	92WF3-003	Spring	1	1	ф1.5 20
14	92WF3-004	Slide block	1	1	
15	92WF3-005	Vibrating shaft front bushing	1	1	
16	92WF3-006	Vibrating shaft rear bushing	1	1	
17	92WF3-007	Oil felt	1	1	
18	92WF3-008	Needle bar vibrating bracket	1	1	
19	92WF3-007	Oil felt	1	1	
20	92WF3-009	Hinge shaft	1	1	
21	1WF2-019	Screw	1	1	
22	92WF3-010	Position plate (1)	1	1	$SM15/64"\times28$
23	21WF1-054	Screw	2	2	
24	92WF3-011	Position plate (2)	1	1	$SM9/64"\times40$
25	1WF1-011	Screw	2	2	
26	92WF3-012	Driven crank	1	1	$SM11/64"\times40$
27	52WF1-050	Screw	1	1	
28	92WF3-013	Oil felt	1	1	SM15/64"×28
29	2KT-001a	Wire	2	2	
30	50WF3-030	Guide rail	1	1	
31	1WF1-011	Screw	2	2	$SM11/64"\times40$

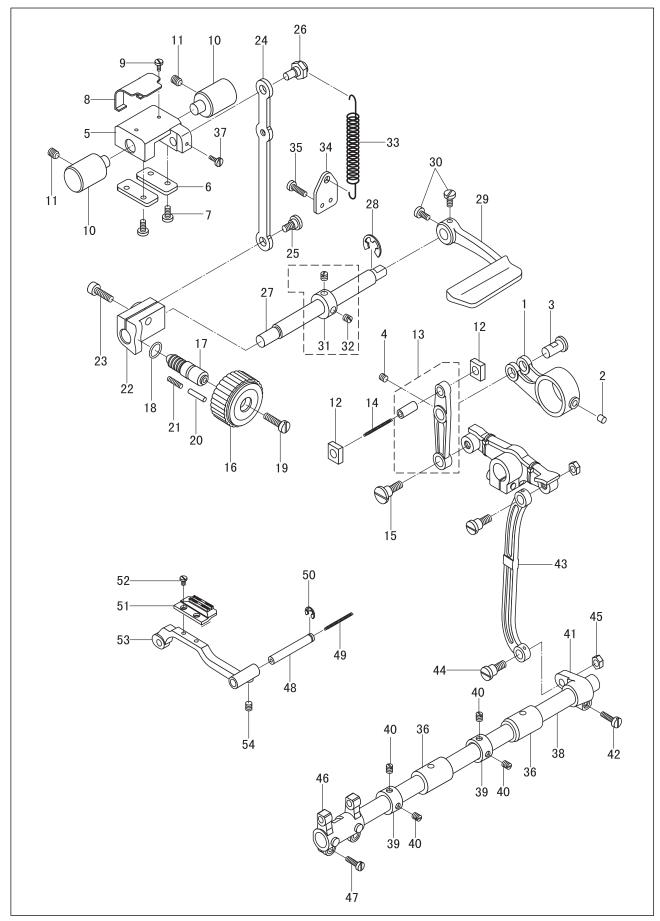
4. Upper feed parts



4. Upper feed parts

Name	770	D (37	3.7	Oua	ntity	D 1
2 928F3-007 Oil felt	NO.	Part No	Name			Remark
2 92\tilde{F}3-007	4	0.00000 0.15	Compating has	-1	4	
3						
4 92WF3-016 Adjusting crank 1 1 1 GB5781-86 M6× 50WF3-040 Washer 1 1 1 SM11/64*×40 Screw 1 1 SM11/64*×40 9 92WF3-018 Upper feed shaft 1 1 SM11/64*×40 9 92WF3-019 Upper feed crank 1 1 SM11/64*×40 11 2KT5-027 Upper feed shaft 1 1 SM11/64*×40 11 2KT5-027 Upper feed shaft 1 1 SM11/64*×40 11 1 Screw 2 2 SM1/4*×40 11 Screw 2 2 SM1/64*×28 11 Screw 2 2 SM1/64*×28 11 Screw 1 1 SM15/64*×28 11 Screw 1 1 SM15/64*×28 11 Screw 1 1 SM15/64*×28 11 Screw 1 1 SM11/64*×40 Screw 1 1 SM	2					
Serial						
6						CDE701 OC MCV99
7						
S				1 1	1	SM11/04 ×40
9				1 1	1	CM11/64" > 40
10				1 1		SM11/04 ~40
11				1 1		
12						SM1/4"×40
13						3W1/4 / 40
14						SM15/64"×28
15						SM19/04 /\20
16				1 1		
17		32 11 0 021		$\frac{1}{2}$	$\frac{1}{2}$	φ6×10
18		92WF3-022				\$ 07 . 10
19						$SM1/4"\times40$
South						
21						SM11/64"×40
22						
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$				1		
24 6K1-048 Screw 1 1 1 SM15/64"×28 25 50WF3-027 Link 1 1 1 1 26 50WF3-028 Oil felt 1 1 1 1 27 50WF3-029 Slide block 1 1 1 1 28 20T4-006 Screw 1 1 1 1 30 92WF3-025 Foot lifting plate 1 1 1 1 31 92WF3-026 Foot lifting link 1 1 1 1 31 92WF3-026 Screw 2 2 2 2 33 92WF3-028 Screw 2 2 2 2 34 92WF3-028 Screw 2 2 2 2 34 92WF3-008 Oil felt 1 1 1 1 35 2KT7-001a Binding cord 1 1 1 1 1				1	1	
25				1	1	SM15/64"×28
Source	25	50WF3-027	Link	1	1	,
Source	26	50WF3-028	Oil felt	1	1	
29	27		Slide block	1	1	
30		20T4-006		1	1	$SM11/64"\times40$
31 92WF3-027 Oil felt 1 1 1 32 2KT7-001a Binding cord 2 2 33 92WF3-028 Screw 2 2 34 92WF3-069 Oil felt 1 1 35 2KT7-001a Binding cord 1 1 36 22WF3-005 Presser bar 1 1 37 50WF4-001 Presser bar bushing 1 1 38 92WF4-001 Presser foot 1 1 39 92WF4-002 Finger guard 1 1 40 22WF3-014 Screw 1 1 SM1/2"×28 41 92WF4-003 Screw 1 1 SM1/2"×28 42 1KT4-002 Nut 1 1 SM1/2"×28 43 92WF4-023 Spring 1 1 44 92WF4-005 Lifting bar shaft 1 1 46 92WF4-006 Releasing bracket <td< td=""><td></td><td>92WF3-025</td><td></td><td>1</td><td>1</td><td></td></td<>		92WF3-025		1	1	
32		92WF3-026		1		
33				1		
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$				2	2	
35 2KT7-001a Binding cord 1 1 1 36 22WF3-005 Presser bar 1 1 1 37 50WF4-001 Presser bar bushing 1 1 1 38 92WF4-001 Presser foot 1 1 1 39 92WF4-002 Finger guard 1 1 1 SM9/64"×40 40 22WF3-014 Screw 1 1 SM1/2"×28 41 92WF4-003 Screw 1 1 SM1/2"×28 42 1KT4-002 Nut 1 1 SM1/2"×28 43 92WF4-023 Spring 1 1 44 92WF4-004 Presser foot lifting bar 1 1 45 92WF4-005 Lifting bar shaft 1 1 46 92WF4-006 Releasing bracket 1 1 47 1WF1-011 Screw 1 1 49 50WF3-029 Slide block 1						
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$						
37 50WF4-001 Presser bar bushing 1 1 38 92WF4-001 Presser foot 1 1 39 92WF4-002 Finger guard 1 1 40 22WF3-014 Screw 1 1 SM9/64"×40 41 92WF4-003 Screw 1 1 SM1/2"×28 42 1KT4-002 Nut 1 1 SM1/2"×28 43 92WF4-023 Spring 1 1 44 92WF4-004 Presser foot lifting bar 1 1 45 92WF4-005 Lifting bar shaft 1 1 46 92WF4-006 Releasing bracket 1 1 47 1WF1-011 Screw 1 1 48 92WF4-007 Screw 1 1 49 50WF3-029 Slide block 1 1 50 92WF4-008 Washer 1 1 51 92WF4-009 Releasing plate 1						
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$				1		
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$				1		
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$				I		
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$				<u> </u>		GWO / G 4 // N/ 4 O
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$						
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$						
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$						SM1/2 ×28
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$						
46 92WF4-006 Releasing bracket 1 1 47 1WF1-011 Screw 1 1 48 92WF4-007 Screw 1 1 49 50WF3-029 Slide block 1 1 50 92WF4-008 Washer 1 1 51 92WF4-009 Releasing plate 1 1 52 50WF4-013 Spring 1 1				I		
47 1WF1-011 Screw 1 1 SM11/64"×40 48 92WF4-007 Screw 1 1 49 50WF3-029 Slide block 1 1 50 92WF4-008 Washer 1 1 51 92WF4-009 Releasing plate 1 1 52 50WF4-013 Spring 1 1				1 1	1 1	
48 92WF4-007 Screw 1 1 49 50WF3-029 Slide block 1 1 50 92WF4-008 Washer 1 1 51 92WF4-009 Releasing plate 1 1 52 50WF4-013 Spring 1 1				1 1	1 1	SM11/64" > 40
49 50WF3-029 Slide block 1 1 50 92WF4-008 Washer 1 1 51 92WF4-009 Releasing plate 1 1 52 50WF4-013 Spring 1 1				_		SMII/04 ^40
50 92WF4-008 Washer 1 1 51 92WF4-009 Releasing plate 1 1 52 50WF4-013 Spring 1 1				_		
51 92WF4-009 Releasing plate 1 1 1 52 50WF4-013 Spring 1 1						
52 50WF4-013 Spring 1 1						
53 50WF4-014 Screw 1 1 SM1/4"×28				1 1		SM1/4"×28
54 $92WF4-010$ Presser bar guide plate 1 1 1 $3M1/4 \times 28$				1 1		UMI/I NAU
55 92WF4-011 Washer 1 1				1 1		
$\begin{array}{ c c c c c c c c c c c c c c c c c c c$				1 1		SM15/64"×28
$\begin{array}{ c c c c c c c c c c c c c c c c c c c$				_		
		02,110 021		1		SMIO/OI NZO

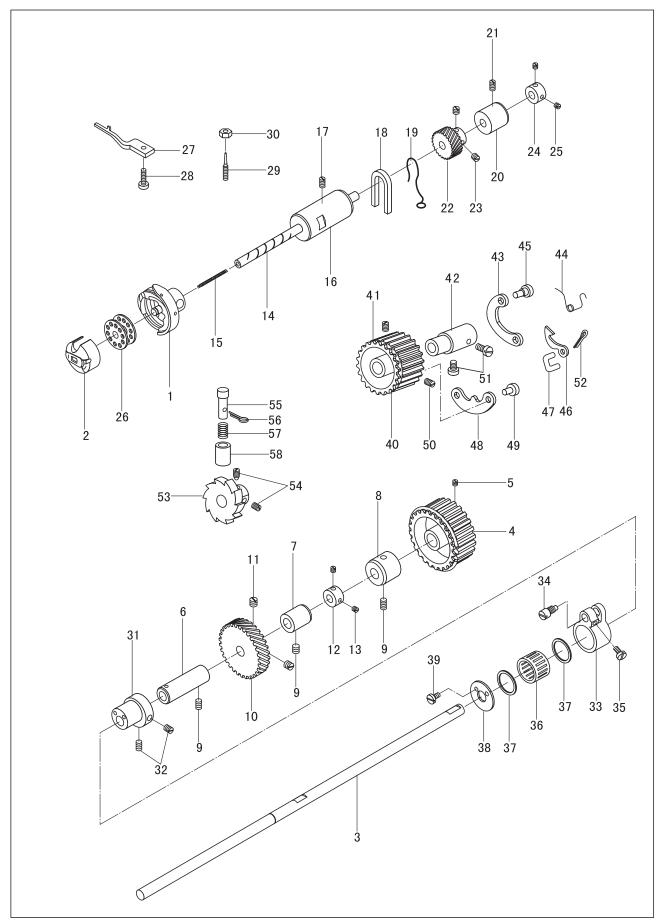
5. Feed parts



5. Feed parts

NO.	Part No	Name	Qua: 0605	ntity 0605A	Remark
1	92WF3-031	Feed link	1	1	
2	92WF3-032	Oil felt	1	1	
3	92WF3-033	Link pin	1	1	
4	6K2-043	Screw	1	1	M5
5	92WF3-034	Reverse feed bracket	1	1	M O
6	92WF3-034 92WF3-035	Retaining plate	2	$\frac{1}{2}$	
7	1WF1-011	Screw	$\frac{2}{4}$	4	SM11/64"×40
8	92WF3-036	Presser plate	1	1	3M11/04 / 40
9	16WF1-059	Screw	2	2	SM11/64"×40
10	92WF3-037	Reverse feed bracket shaft	2	2	3M11/04 / 40
11	1WF5-019	Screw	2	2	SM15/64"×28
12	92WF3-038	Slide block	2	2	3M13/04 ×28
13	92WF3-038 92WF3-039	Feed vibrating bar assembly	1	1	
14	92 W F 3 - 0 3 9	Oil wick	1	1	ф1.5 35
15	92WF3-040	Screw	1	1	$\Psi 1.5 - 55$
16	92WF3-040 92WF3-041	Stitch length adjusting dial	1	1	
	92WF3-041 92WF3-042	Bolt	1	1	
17			1	_	
18	92WF3-043	Seal ring Screw		1	CM9 /16"×/90
19	92WF3-044		1	1	$SM3/16" \times 28$
20	17WF4-035	Stop pin	1	1	
21	50WF3-058	Spring	1	1	
22	92WF3-045	Stitch length holder	1	1	W.C
23	6K2-024	Screw	1	1	M6
24	92WF3-046	Link	1	1	
25	92WF3-047	Screw	1	1	
26	92WF3-048	Eccentric pin	1	1	
27	92WF3-049	Reverse feed lever shaft	1	1	
28	92WF3-071	Retainer	1	1	GB896-86-9
29	92WF3-050	Reverse feed lever	1	1	GW0 /10"\\ 100
30	92WF3-051	Screw	2	2	$SM3/16" \times 28$
31	92WF3-052	Collar	1	1	GM4 / 4// > / 4 @
32	22T3-002B2	Screw	2	2	SM1/4"×40
33	92WF3-053	Spring	1	1	
34	92WF3-054	Spring hook	1	1	GM44 / 0.4 //) / 4.0
35	1WF3-009	Screw	2	2	$SM11/64"\times40$
36	92WF3-021	Feed shaft bushing	2	2	
37	36WF3-029B	Screw	2	2	
38	92WF3-055	Feed shaft	1	1	
39	92WF3-022	Collar	2	2	~~~ / . //
40	22T3-002B2	Screw	4	4	$SM1/4"\times40$
41	92WF3-057	Crank	1	1	ano /* a#\\\\
42	41WF3-018	Screw	1	1	$SM3/16" \times 28$
43	92WF3-058	Link	1	1	
44	92WF3-059	Screw	2	2	
45	6K2-053	Nut	2	2	$SM9/32"\times28$
46	92WF3-060	Feed crank	1	1	
47	1WF3-009	Screw	2	2	$SM11/64"\times40$
48	92WF3-061	Connecting pin	1	1	
49		Oil wick	1	1	Ф3 50
50	92WF3-072	Retainer	1	1	Gb896 5
51	92WF3-067	Feed dog	1	1	
52	17WF3-002	Screw	2	2	$SM1/8" \times 44$
53	92WF3-068	Feed dog support	1	1	
54	80WF6-036	Screw	1	1	M5

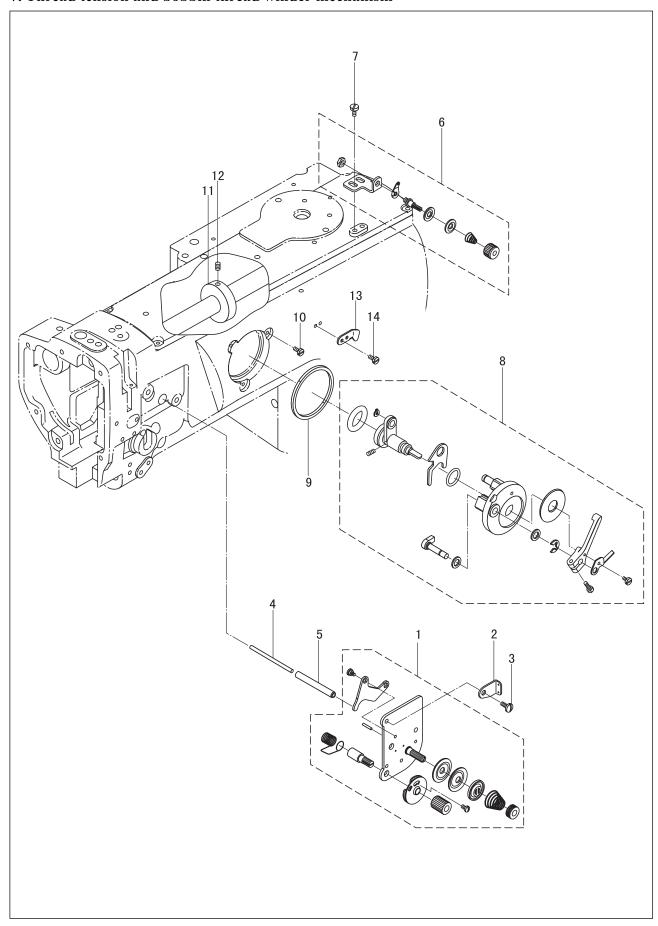
6. Lower shaft mechanism



6. Lower shaft mechanism

NO.	Part No	Name		ntity	Remark
			0605	0605A	
1	92WF1-001	Hook CPL	1	1	
2	92WF1-002	Bobbin case CPL	1	1	
3	92WF1-016	Lower shaft	1	1	
4	92WF1-017	Lower shaft synchronized pulley CPL	1	/	
_	110WF1-017	Lower shaft synchronized pulley CPL	/	1	G154 / 1 // 1 1 1 G
5	92WF1-014	Screw	2	2	$SM1/4"\times40$
6	92WF1-018	Lower shaft bushing (L) Lower shaft bushing (M)	1	1	
7 8	92WF1-019 92WF1-020	Lower shaft bushing (R)	$\frac{1}{1}$	1 1	
9	17T5-016	Screw	3	3	SM15/64"×28
10	92WF1-021	Lower shaft gear	1	1	SM19/04 //20
11	2KT5-027	Screw	$\frac{1}{2}$	2	$SM1/4"\times40$
12	92WF1-022	Collar	$\overline{1}$	1	
13	36WF5-012A	Screw	2	2	$SM11/16"\times40$
14	92WF1-023	Hook driving shaft	1	1	
15		Oil wick	1	1	
16	92WF1-024	Hook driving shaft bushing (L)	1	1	
17	42WF3-007	Screw	1	1	$SM15/64"\times28$
18	92WF1-025	Oil felt	1	1	
19	92WF1-026	Spring Hook driving shaft bushing (R)	1 1	1	
20 21	92WF1-027 42WF3-007	Screw	1	1 1	SM15/64"×28
$\frac{21}{22}$	92WF1-028	Hook driving gear	1	1	SM15/04 A26
$\frac{22}{23}$	22T2-005B3	Screw	2	2	$SM1/4"\times40$
24	92WF1-029	Collar	1	1	OM1/ 1 // 10
$\frac{25}{25}$	18WF3-022	Screw	$\hat{2}$	$\frac{1}{2}$	$SM11/64"\times40$
26	33T1-027	Bobbin	1	1	
27	145WF-016	Bobbin case opener	1	1	
28	6K1-057	Screw	1	1	SM11/64"×40 SM11/64"×40
29	92WF1-031	Screw	1	1	$SM11/64"\times40$
30	50WF3-042	Nut	1	1	$SM11/64"\times40$
31	92WF3-062	Eccentric cam Screw	1	1	CM15 / C 4" X 9 9
32 33	6K1-017 92WF3-063	Feed dog lift link	2 1	2 1	$SM15/64"\times28$
34	92WF3-063 92WF3-064	Eccentric pin	$\overset{1}{1}$	1	
35	2KT5-005	Screw	1	1	SM11/64"×40
36	92WF3-073	Bearing	1	1	K202417
37	92WF3-065	Retainer	$\tilde{2}$	2	11202111
38	92WF3-066	Cover	1	1	
39	16WF1-059	Screw	2	2	$SM9/64"\times40$
40	110WF-017A	Lower shaft synchronized pulley	/	1	
41	16WF1-043	Retain ring	/	1	
42	0.0 W D 1 0 1 0	Pulley bushing	/	1	103614
43	22WF1-013	Spring plate	/	1	
44 45	22WF1-014 22WF1-015	Spring Pin	/	1	
45	22WF1-015 22WF1-016	Stop plate	/	1 1	
47	22WF1-010 22WF1-017	Link	/	1	
48	22WF1-018	Clutch plate		1	
49	22WF1-019	Clutch plate pin		1	
50	22WF1-020	Screw	/	2	
51	22WF1-052	Screw	/	2	
52		Pin	/	1	GB/T991 1. 2×8
53	110WF-032	Clutch wheel	/	1	
54	6K2-043	Screw	/	2	
55	22WF1-038	Button	/	1	
56	1 CWE2 04C	Pin	/	1	
57 58	16WF3-046 22WF1-040	Spring Button bushing	/	1 1	
ე ი	22WI 1-040	Dutton busining	/	1	

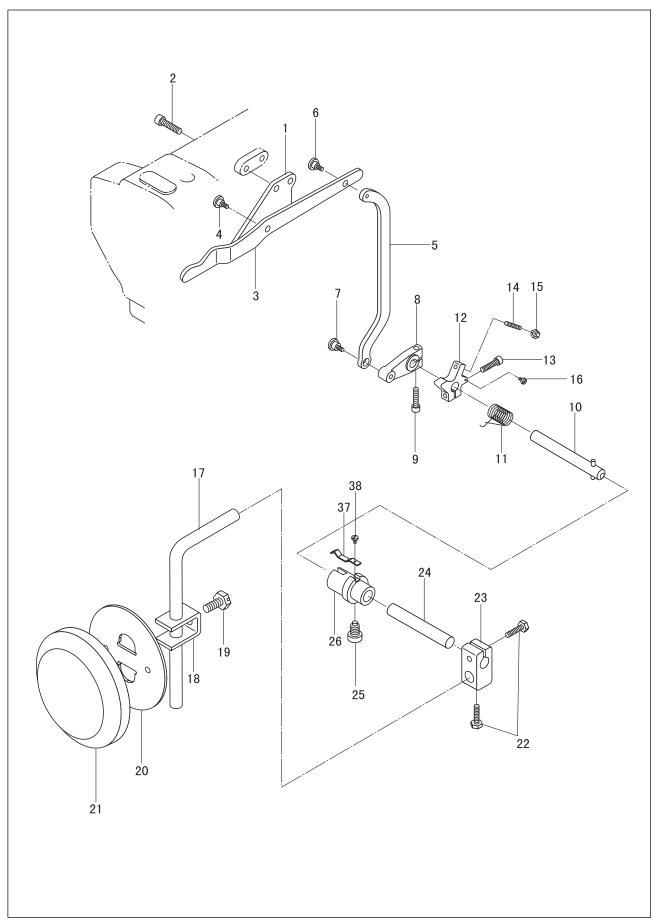
7. Thread tension and bobbin thread winder mechanism



7. Thread tension and bobbin thread winder mechanism

NO.	Part No	Name	Qua:	ntity 0605A	Remark
1	92WF2-018	Thread tension plate assembly	1	1	
2	92WF2-019	Thread guide plate	1	1	
3	1WF1-011	Screw	2	2	$SM11/64"\times40$
4	92WF2-020	Thread releasing bar	1	1	
5		Thread releasing bar bushing	1	1	GB/T879.16×55
6	92WF2-021	Bobbin thread tension assembly	1	1	
7	13WF2-040	Screw	1	1	M4
8	92WF2-025	Thread winder assembly	1	1	
9	92WF2-026	Friction ring	1	1	
10	92WF2-027	Screw	3	3	$SM11/64"\times40$
11	92WF2-035	Friction wheel	1	1	
12	6K2-043	Screw	2	2	
13	92WF2-036	Cutter	1	1	
14	36WF2-031	Screw	2	2	

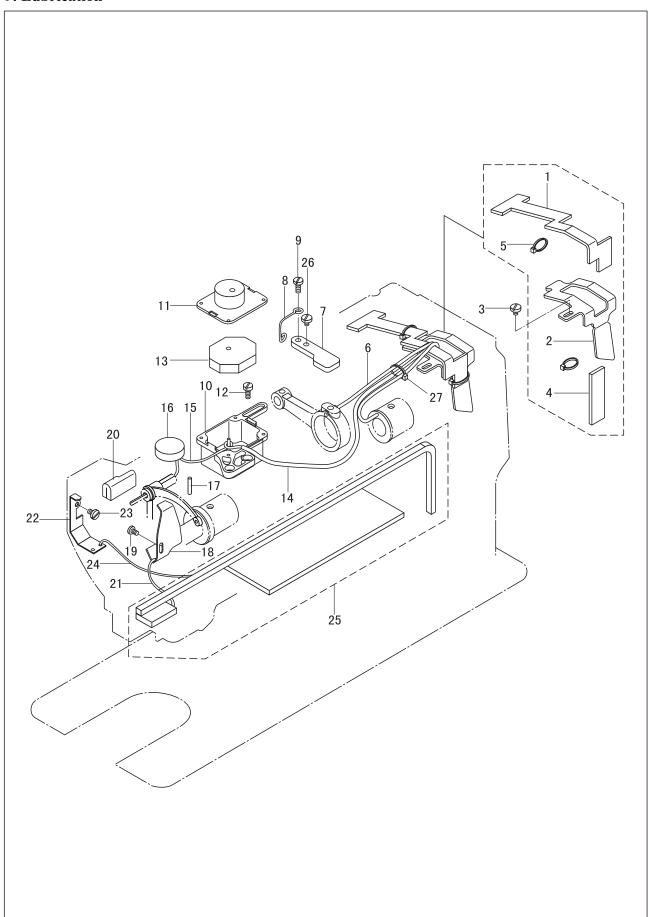
8. Knee lifter mechanism



8. Knee lifter mechanism

NO.	Part No	Name	Qua 0605	ntity 0605A	Remark
1	92WF4-012	Knee control lever support	1	1	
2	72WF2-009	Screw	2	2	M6
3	92WF4-013	Knee control lever	1	1	
4	92WF4-014	Screw	1	1	$SM1/4"\times40$
5	92WF4-015	Knee control connecting rod	1	1	
6	92WF4-016	Screw	1	1	$SM11/64"\times40$
7	92WF4-014	Screw	1	1	$SM1/4"\times40$
8	94WF4-017	Crank	1	1	
9	80WF6-025	Screw	1	1	M5
10	92WF4-018	Knee control revolving shaft	1	1	
11	92WF4-019	Spring	1	1	
12	92WF4-020	Position block	1	1	
13	80WF6-025	Screw	1	1	M5
14	92WF4-022	Screw	1	1	GB/T77 M5×25
15		Nut	1	1	GB/T6172.1 M5
16	92WF4-021	Screw	1	1	$SM9/64"\times40$
17	22T9-003B2	Knee control bell bent bar	1	1	
18	22T9-003B6	Bell bracket	1	1	
19	22T9-003B7	Screw	1	1	
20	22T9-003B5	Knee control bell	1	1	
21	22T9-003B8	Cushion	1	1	
22	60WF6-007	Screw	2	2	$SM5/16"\times24$
23	60WF6-008	Bell bent bar adapter	1	1	
24	60WF6-009	Knee control connecting bar	1	1	
25	60WF3-007	Screw	1	1	$SM5/16" \times 24$
26	60WF6-010	Connecting bushing	1	1	
27	60WF6-011	Spring	1	1	
28	19WF4-002	Screw	1	1	$SM9/64"\times40$

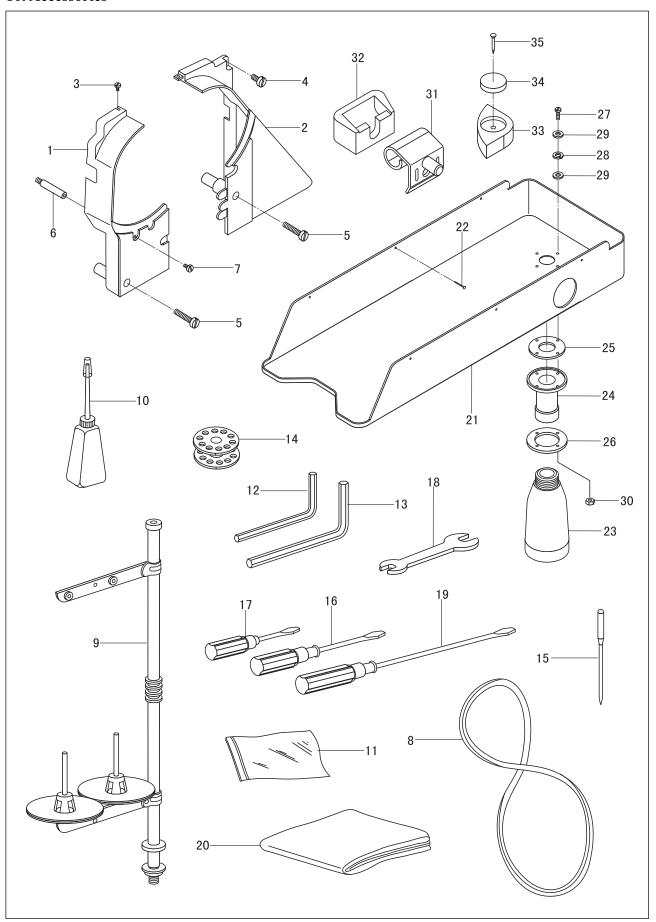
9. Lubrication



9. Lubrication

NO.	Part No	Name	Qua: 0605	ntity 0605A	Remark
1	92WF5-001	Oil felt	1	1	
2	92WF5-002	Oil felt support	1	1	
3	1WF1-011	Screw	1	1	$SM11/64"\times40$
4	92WF5-003	Small oil felt	1	1	
5	2KT7-001a	Binding cord	3	3	
6		Oil wick	1	1	Φ2×190
7	92WF5-004	Press plate	1	1	
8	92WF5-005	Hook	1	1	
9	42WF2-008	Screw	1	1	$SM11/64"\times40$
10	92WF5-006	Oil pot	1	1	
11	92WF5-007	Oil pot cover	1	1	
12	21WF3-026	Screw	2	2	SM11/64"×40
13	92WF5-008	Oil felt	2	2	
14		Oil tube	1	1	Φ3× Φ5×180
15		Oil wick	1	1	$\Phi 2 \times 380$
16	92WF5-009	Oil felt 1	1	1	
17	92WF5-010	Oil felt 2	1	1	
18	92WF5-011	Oil retaining plate	1	1	
19	16WF1-059	Screw	1	1	$SM9/64"\times40$
20	92WF5-012	Oil felt	1	1	
21		Oil wick	1	1	$\Phi 2 \times 250$
22	92WF5-013	Oil retaining plate	1	1	
23	36WF1-031D	Screw	1	1	$SM11/64"\times40$
24		Oil wick	1	1	φ2×250
25	92WF5-014	Oil felt assembly	1	1	
26	1WF1-011	Screw	1	1	$SM11/64"\times40$
27	2KT7-001a	Binding cord	1	1	

10. Accessories



10. Accessories

NO.	Part No	Name	Qua 0605	ntity 0605A	Remark
1	92WF6-013A	Safety guard 1	1	1	
2	92WF6-013B	Safety guard 2	1	1	
3	2KT6-012	Screw	1	1	SM11/64"×40
4	21WF3-012	Screw 1	1	1	SM15/64"×28
5	1WF2-060	Screw 2	2	2	SM15/64"×28
6	92WF6-016	Column	1	1	
7	42WF2-008	Screw	1	1	SM11/64×40
8		V-belt	1	1	M42
9	33TF-019	Spool stand	1	1	
10	33TF-011	Small oil pot	1	1	
11	33TF-010	Parts bag	2	2	
12		Spanner	1	1	
13		Spanner	1	1	
14	33T1-027	Bobbin	6	6	
15		Needle	3	3	DP×17 23#
16	33TF-013	Screwdriver (medium)	1	1	
17	33TF-014	Screwdriver (small)	1	1	
18		Double ended spanner	1	1	9×10
19	33TF-012	Screwdriver (big)	1	1	
20	13F-002	Machine head cover	1	1	
21	92WF6-017	Oil reservoir	1	1	
22		Screw	6	6	SG162 19
23	92WF6-027	Oil pot	1	1	
24	92WF6-018	Adapter	1	1	
25	92WF6-019	Seal ring	1	1	
26	92WF6-020	Presser plate	1	1	
27		Connecting screw	4	4	GB/T818 M3×14
28		Spacer	4	4	GB/T848 3
29	92WF6-023	Seal spacer	8	8	
30		Connecting nut	4	4	GB/T6170 M3
31	71WF5-009	Connecting hook assembly	2	2	
32	71WF5-010	Rubber cushion	2	2	
33	92WF6-025	Rubber cushion	4	4	
34	92WF6-026	Oil felt	4	4	
35		Screw	4	4	

