



**WF 9995 H**

**SINGLE NEEDLE, DROP FEED MACHINE WITH  
ALTERNATING OUTSIDE PRESSER FOOT**

# **INSTRUCTION MANUAL SPARE PARTS LIST**

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## 1. Main technical specifications

Application: medium and heavy duty

(GC0302CX heavy duty with thick thread)

Max sewing speed: 2000 spm (GC0302CX 1800 spm)

Stitch length: 0~8mm

Presser foot lift: 6.5mm by hand 13mm by knee

Max sewing capacity: 8mm

Alternate presser foot lift volume: 3.3~5.5mm

Timing feed length: not less than 8mm

Needle: Model DP×1720#~24# (GC0302CX DP×17 25#)

Hook: Auto-lubricating big rotating hook

Lubrication: Auto lubrication

Motor power: 0.37kw

## 2. Preparation

### (1) Cleaning machine

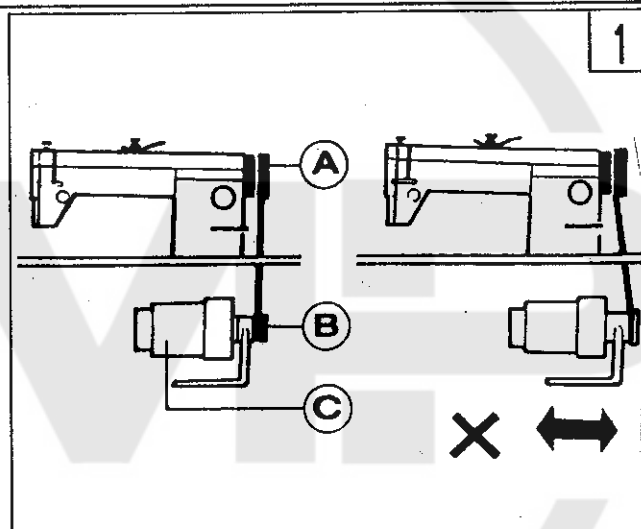
Clean off the grease and dusts on the surface of machine with gasoline and soft cloth.

### (2) Inspection

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

## 3. Installing the motor (Fig. 1)

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



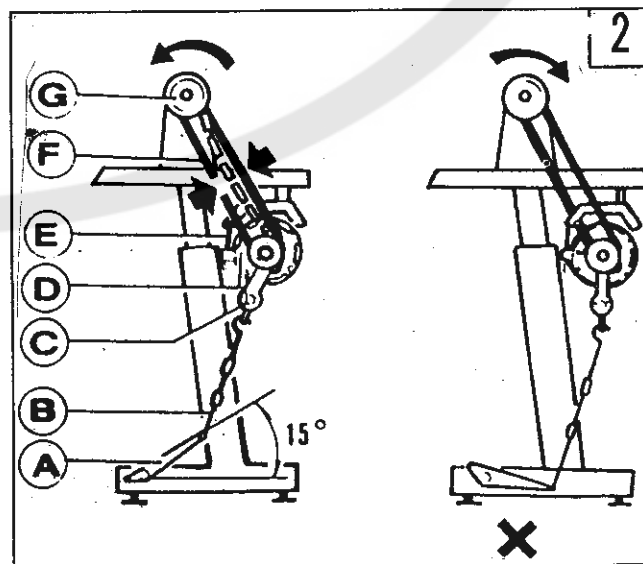
## 4. Connecting the clutch lever to the pedal (Fig. 2)

a. The optimum tilt angle of pedal with floor is approx 15 degree.

b. Adjust the clutch of the motor so that clutch lever (C) and draw bar (B) run in line as Fig. 6, the machine would have stable motion and long using.

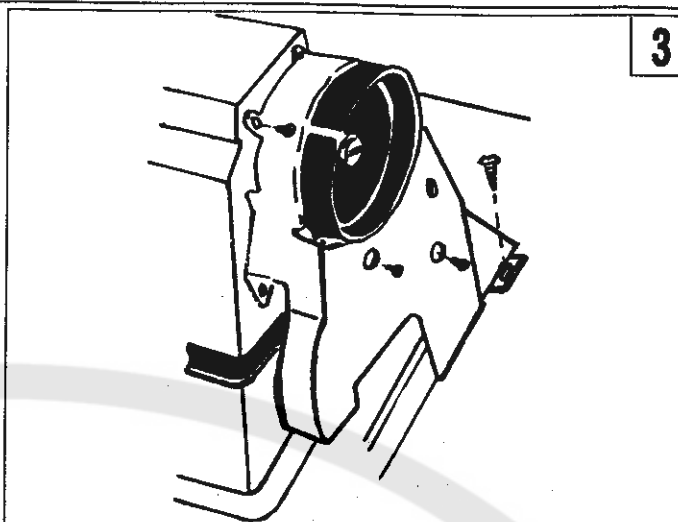
c. The machine balance wheel should rotate counter clockwise for normal sewing when view from opposite side of the balance wheel. The motor rotates in the same direction. The rotation can be reversed by reversing (turn over 180 deg.) the plug of the motor.

d. Adjust the tension of V-belt F by moving the motor vertically. The proper tension of V-belt is a slack of 10~12mm when the belt is depressed (at the belt pan) by finger.



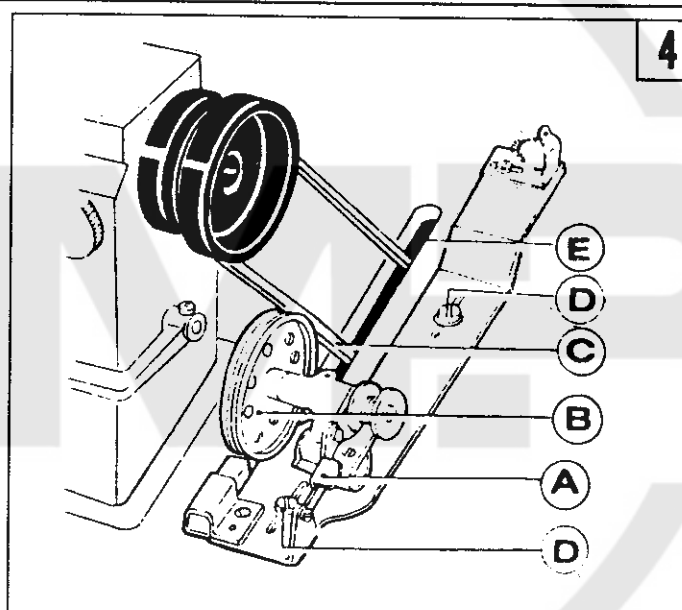
## 5. Installing belt guard(Fig 3)

The belt guard should be installed for safety.



## 6. Installing the bobbin winder(Fig.4)

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



## 7. Lubrication(Fig 5)

### a. Oil amount

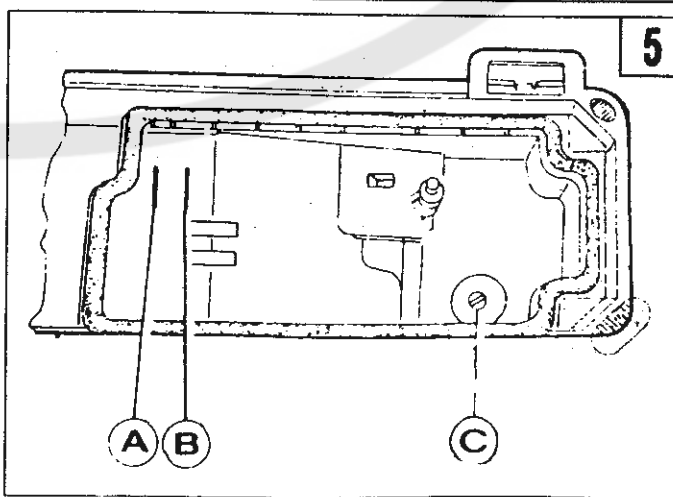
Oil amount must be oiled according to the mark of drip pan. Mark (A) is the highest situation, Mark (B) is the lowest situation, Note that oil amount couldn't be lower than mark(B), otherwise all parts of machine will appear heat and dead point for not gaining oil.

### b. Oiling

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

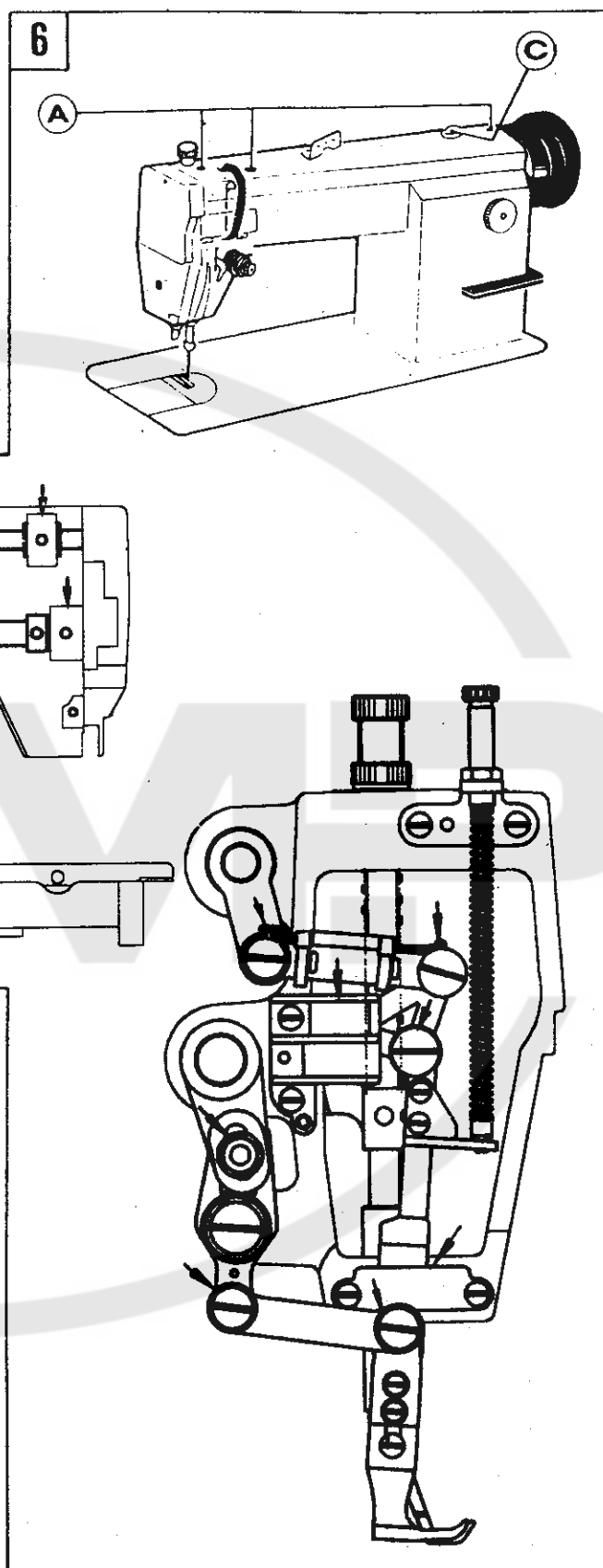
### c. Changing

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



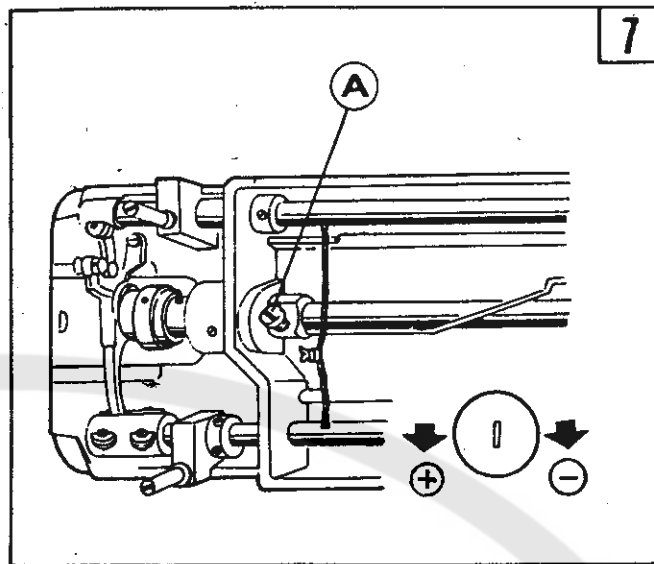
## 8. Trial run (Fig 6)

When the machine left out of operation for a quite long time and used again, remove the red rubber plug on top of the machine head, oil it thoroughly, then lift the presser foot and run at a low speed of 1000~ 1500 spm, observe the sparking condition through oil window (C), as the lubrication is well, keep the running test at the low speed about 30 minutes, then increase the speed gradually, after month's running to perfect its performance, then increase up to proper sewing speed.



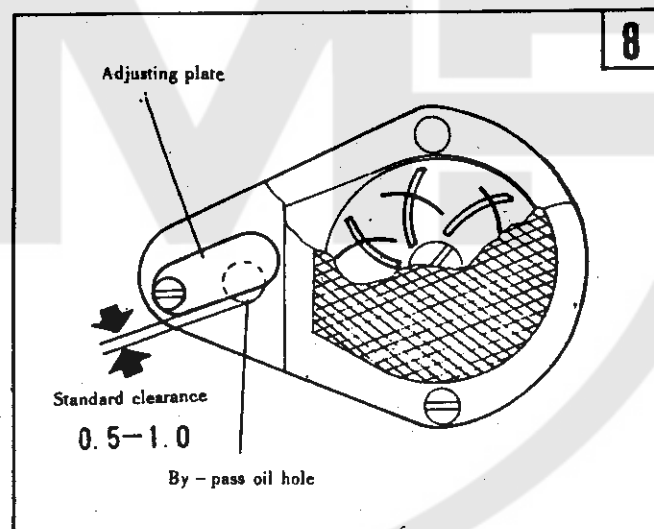
## 9. Rotating hook oil amount adjustment (Fig 7)

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



## 10. Oil pump supply adjustment (Fig 8)

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

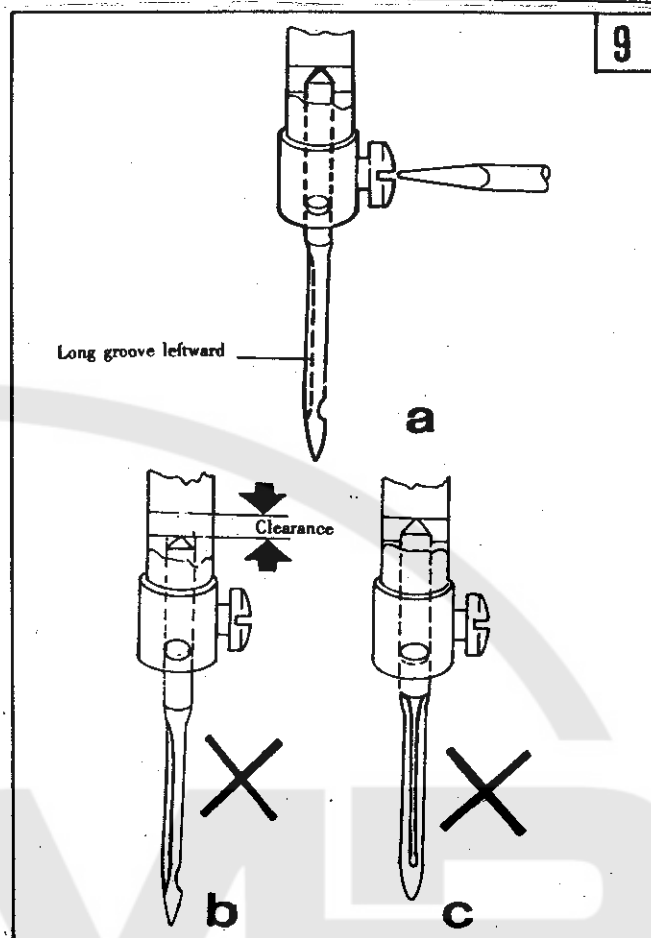


## 11. Installing the needle(Fig 9)

Turn the balance wheel to lift the needle bar to its highest point, loosen needle set screw1, making the needle groove turn to the left side of an operator, fully insert the needle shank up to the bottom of needle socket, then tighten needle set screw1.

Note: Fig.12 (b) insufficient insertion

Fig.12 (C) Wrong direction of groove

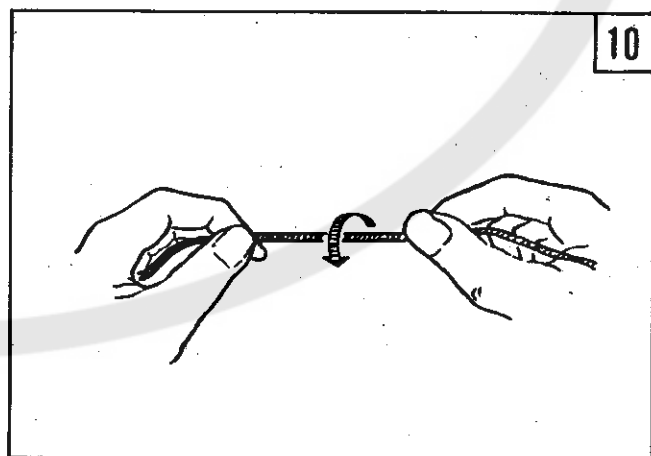


## 12.Coordination among the needle, the thread and the material (Fig 10)

The needle thread is left-twisted, the bobbin thread is left or right-twisted. Holding the thread, twist it with right hand in the direction of arrow shown in Fig10, if it is tight, it is left-twisted, contrarily, it is right-twisted.

The Needle is DP×17 25#~24#

The needle number must be fitted for the materials. Sewing too heavy the weight of materials, the needle would be breaking and skipping stitch and thread breaking for its too thin; if the needle is too thick, it would damage the clothes for its large needle hole. Therefore, the selection of needle and thread must be fitted to the materials.



## 13.Threading the needle thread (Fig 11)

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

(1)Lead the thread down through the three-eye thread guide ① on the top.

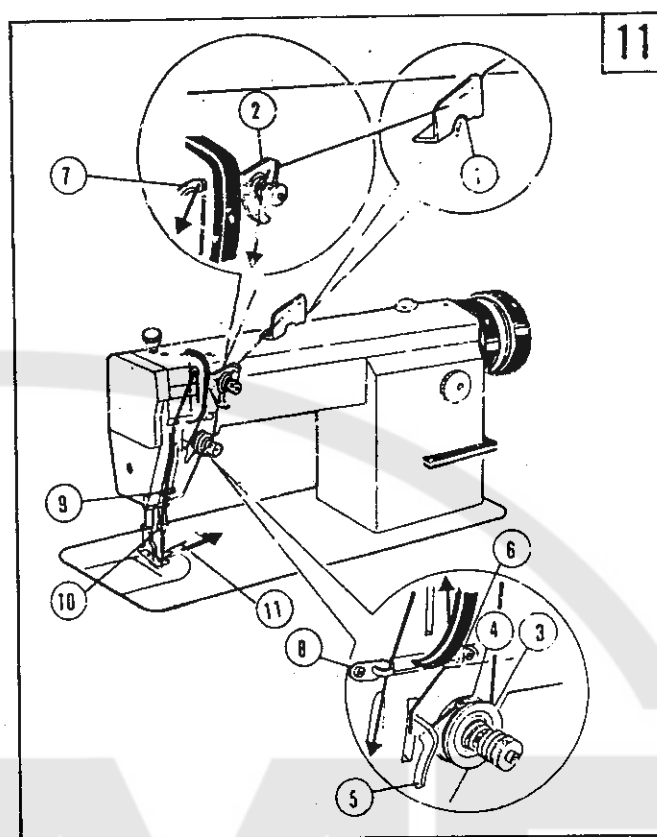
(2) Pass down thru the left hole of thread retainer ②, then down thru the lower hole of thread retainer ②.

(3) Pass down thru between the two tension disc ③

(4) Pass up thru the hook of thread take-up spring ④, thru thread regulator ⑤, thru thread guide ⑥ and up thru the hole of thread take-up lever ⑦.

(5) Down thru thread guide ⑧, ⑨, and needle bar thread guide ⑩, then pass the thread from the left thru the eye of needle ⑪, draw out the thread approx 100mm from the needle eye.

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

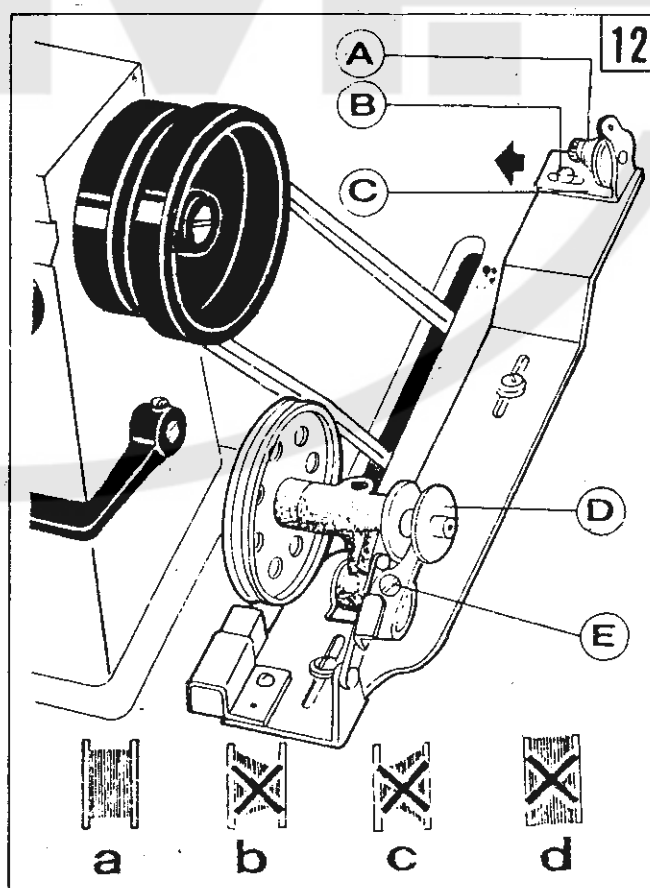


#### 14. Winding adjustment (Fig 12)

The wound bobbin thread should be neat and tight. If not, adjust the thread tension by turning tension stud thumb nut of the bobbin winder tension bracket (A). If the wound bobbin is not neat, tension bracket (C) can be moved to be adjusted. When adjusting, loosen screw (B) first, then move the bracket leftward or rightward if the thread is wound to one side as shown in Fig. 15(6), move the tension bracket rightward, while if the thread is wound to one side as shown in Fig. 15(C), move the tension bracket leftward until the thread is wound neatly as shown in Fig. 15(a), tighten screw (B).

Note: Nylon or polyester thread should be wound with light tension, otherwise bobbin (D) might be broken or deformed.

Don't overfill the bobbin, because it makes its thread loosening down from the bobbin. The optimum capacity of thread will fill about 80% of bobbin outside diameter, and this can be adjusted by stop latch screw (E).

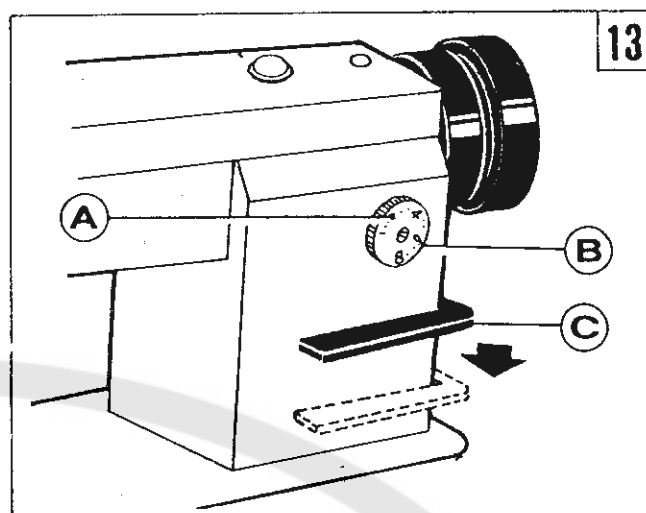




## 15. Setting the stitch length and controlling the reverse sewing (Fig 13)

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

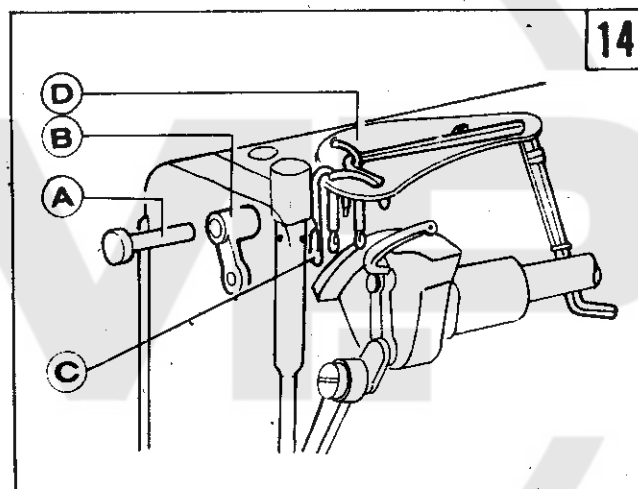
Reverse sewing can be obtained when feed reverse lever (C) is depressed and forward sewing can be restored automatically when feed reverse lever (C) is released.



## 16. Thread take-up oiling (Fig 14)

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

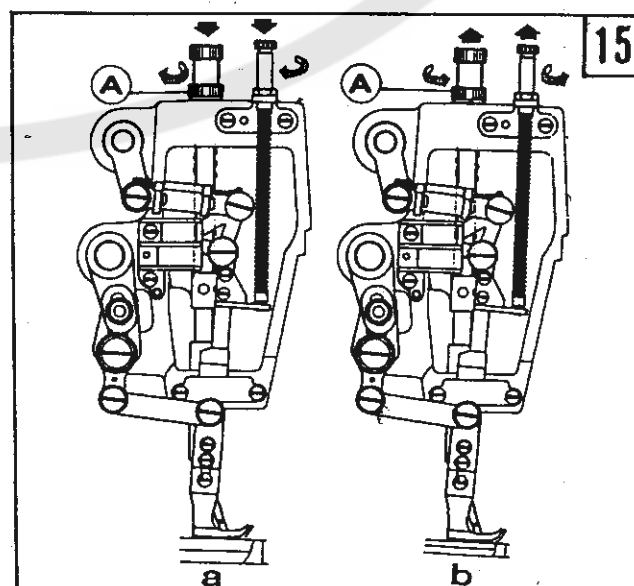
- ① Open the face plate, remove the pressure screw, lock nut and presser bar.
- ② Remove Hinge(A) and Lever(B).
- ③ Draw out Oil Wick(C).
- ④ Loosen the wick fix screw on the arm top, and take out Set Plate(D).
- ⑤ Replace with a new one.
- ⑥ Installing is in a reverse sequence.



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

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

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



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

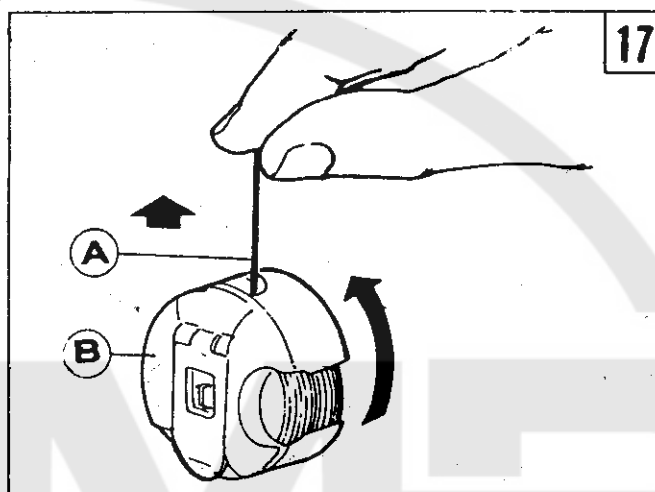
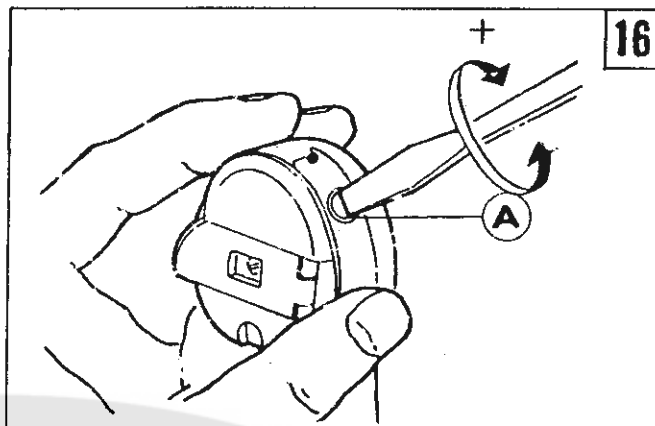
In general, the thread tension is to be adjusted in accordance with materials thread and others.

In practice, the thread tension is adjusted according to the stitches resulted to get the normal stitches.

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

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

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



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

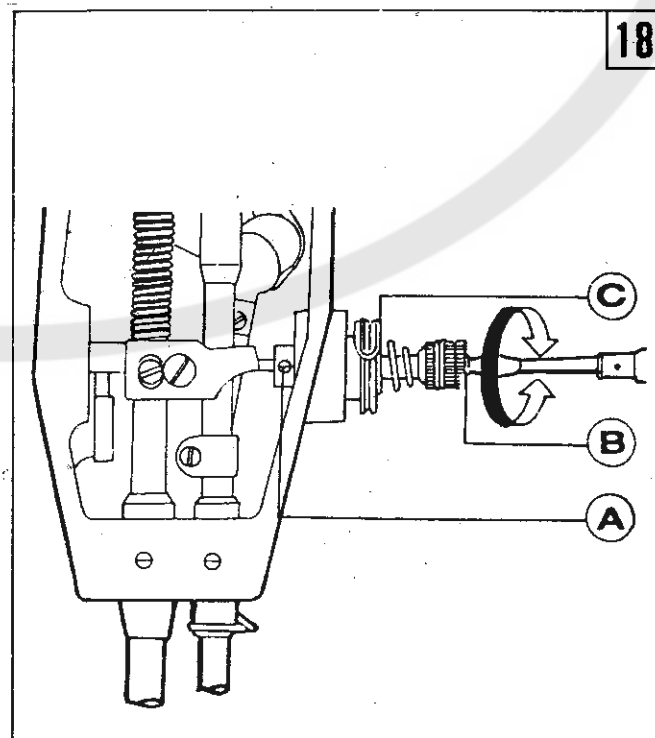
The normal sewing range of thread take-up spring is 5~8mm. For sewing light weight materials (short stitch), weaken the spring tension and widen the sewing range of spring, while for sewing heavy weight materials, strengthen the spring tension and shorten the sewing range of spring.

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

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

The method of adjustment:

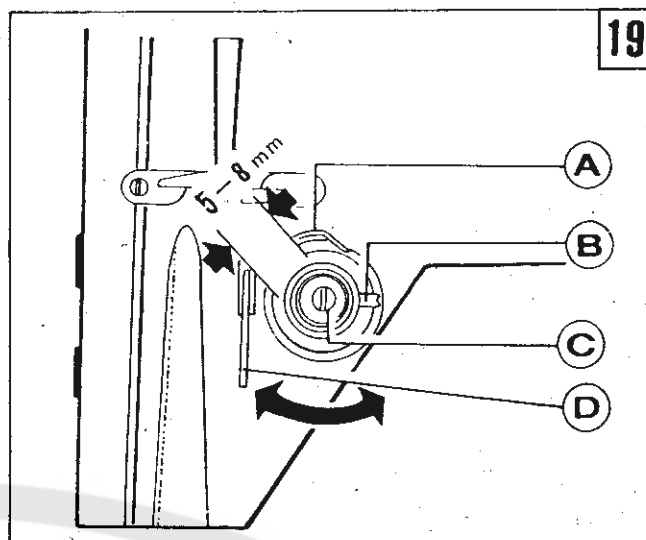
Loose set screw (A) first, then to turn tension stud (B) counter clockwise to release the tension of thread take-up spring (C) to zero, and to turn tension stud (B) clockwise until spring (C) just comes into contact with the stop slot on the thread take-up spring regulator, then to further turn tension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



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

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

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



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

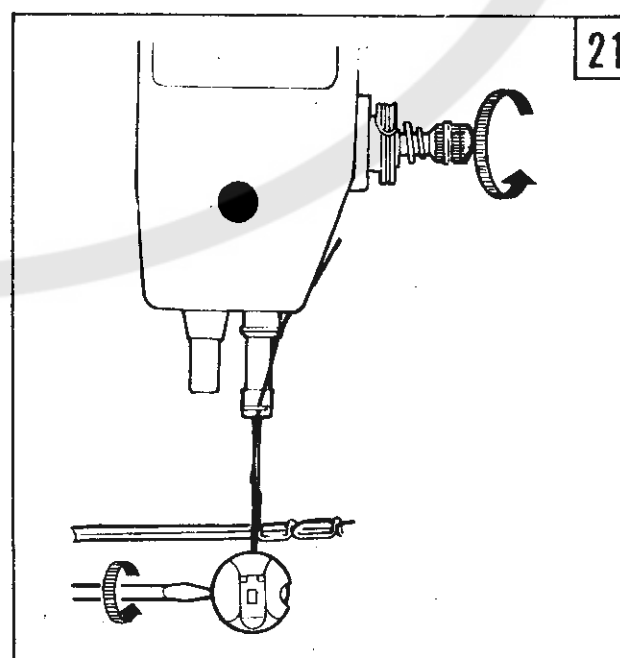
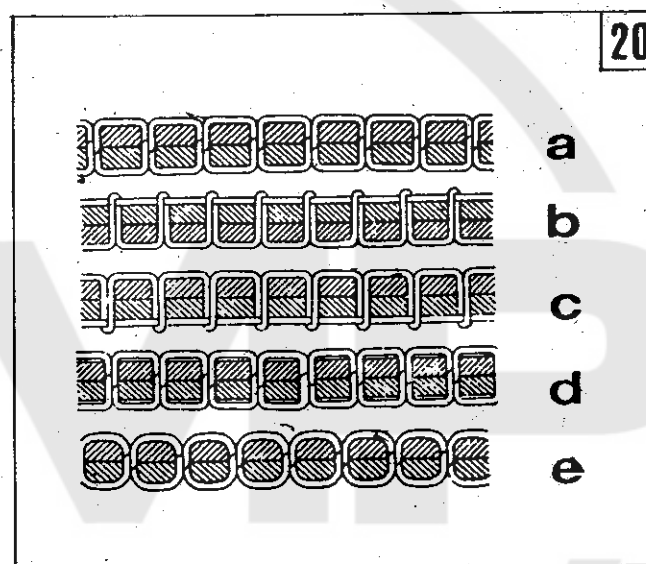
The position of the thread guide affects sewing quality, so it must be adjusted according to the materials to be sewn.

	Leftward	Center	Rightward
Thread guide position			
Material	Heavy	Medium	Light

Fig.20 shows the various type of stitch forms.

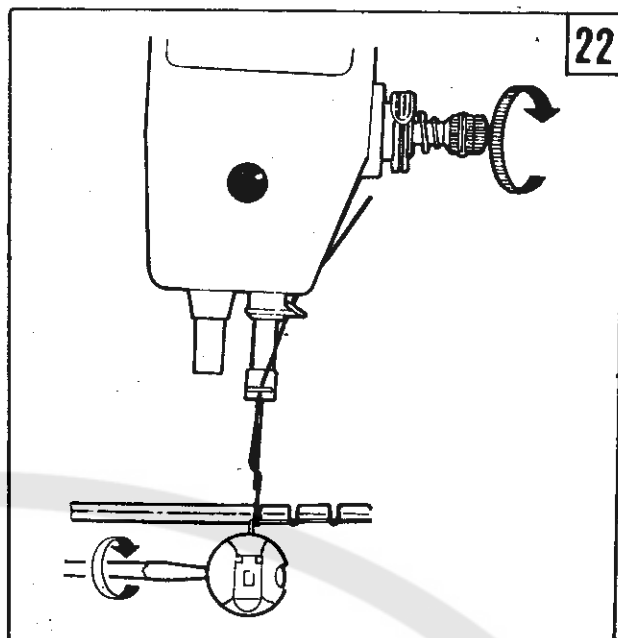
Normal stitch form should be as shown in Fig.20(a). When abnormal stitches occur with puckering or thread breakage, the tension of needle thread and bobbin thread must be adjusted accordingly.

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



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

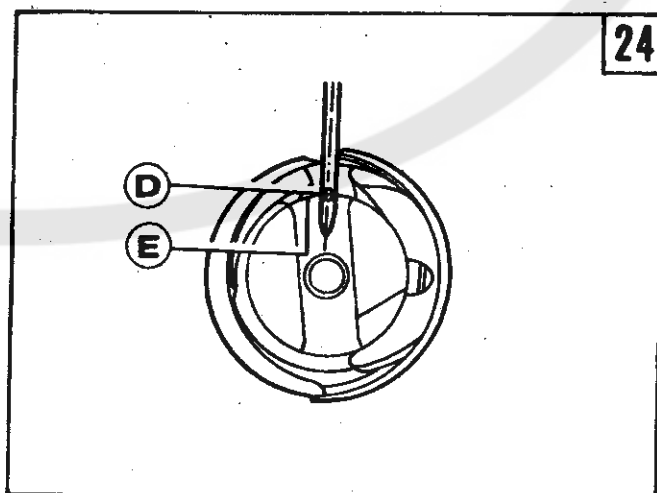
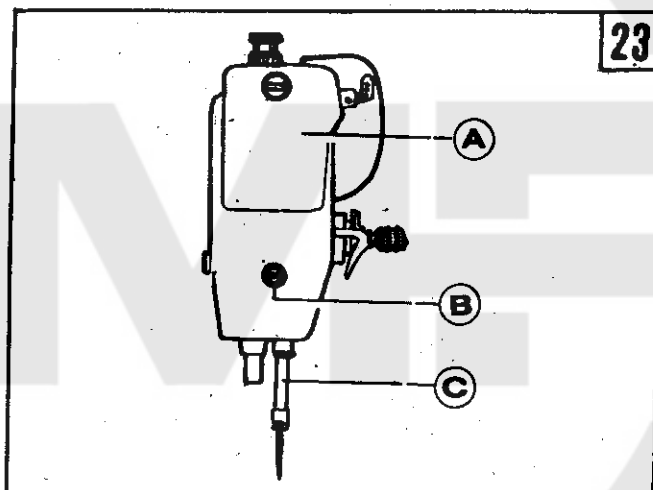
(c) Other abnormal stitches as shown in Fig.20 (d),(e),adjustment can be made which reference to the above methods.



## 21. Timing between the needle and the rotating hook (Fig 23、 24、 25、 26)

### 1 Adjusting the position of needle bar

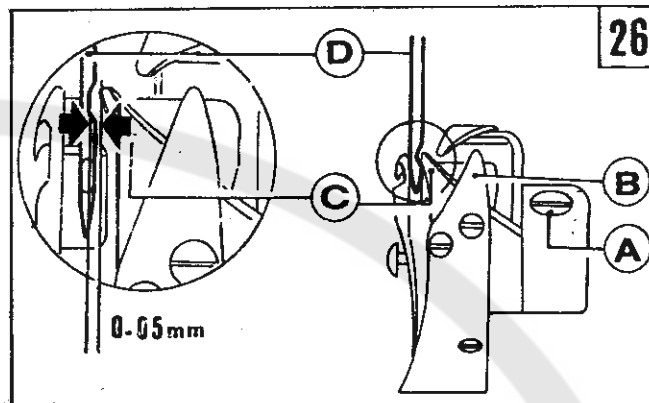
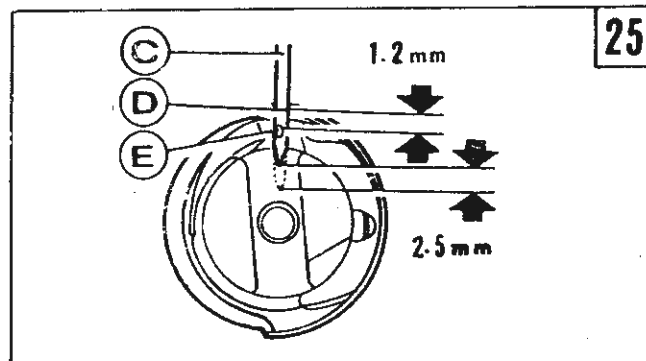
Turn the balance wheel to locate the needle bar (C) at its lowest position, remove the rubber plug in the face plate (A), then loosen the needle bar (C) connecting stud clamping screw (B) and move the needle bar (C) vertically to locate the timing position (The timing position of the needle bar is :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



2 Adjusting rotating hook point timing with needle.

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

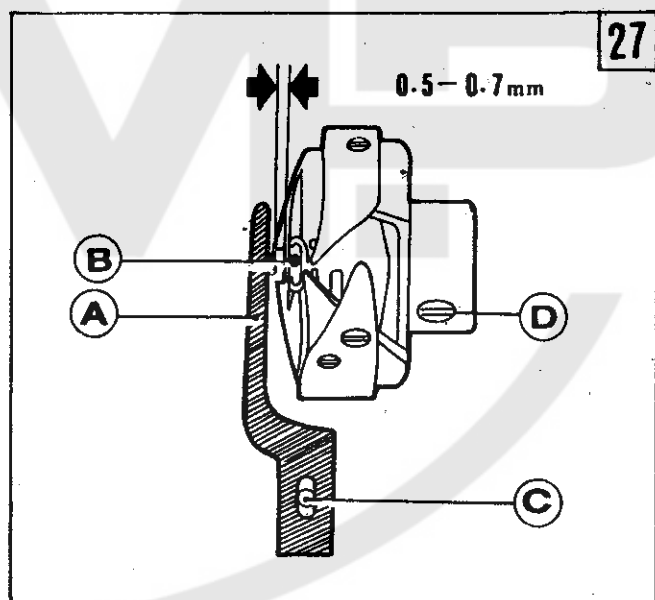
When adjusting the rotating hook point timing also to note the clearance between notch bottom of needle (D) and hook point (C) of approx 0.05mm must be maintained. (Fig 26)



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

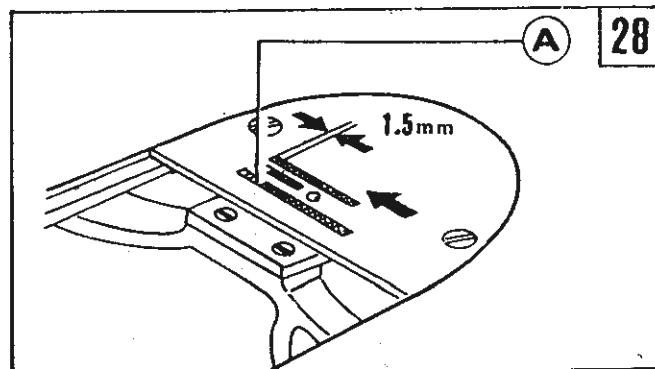
Lift the needle bar to its highest position, remove the throat plate, take down the needle and the bobbin case, loosen rotating hook bobbin case holder position bracket screw (C) and take down position bracket (A), then loosen set screws (D) of rotating hook to keep hook freely, turning around its axis,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

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

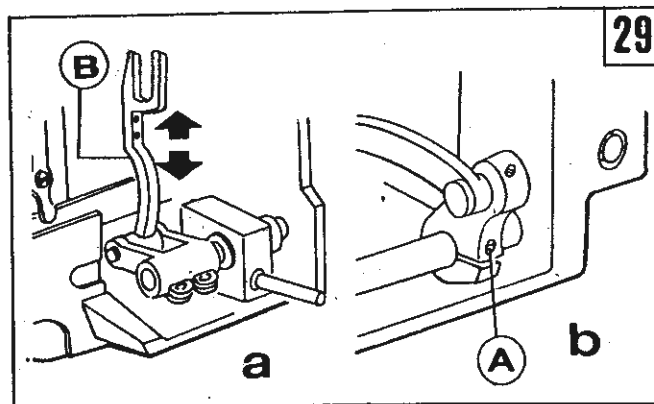


## 23. Installing feed dog (Fig 28、 29)

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



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



## 24. Feed dog horizontal Adjustment (Fig 30)

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

When sewing condition requires tilting, adjust like this:

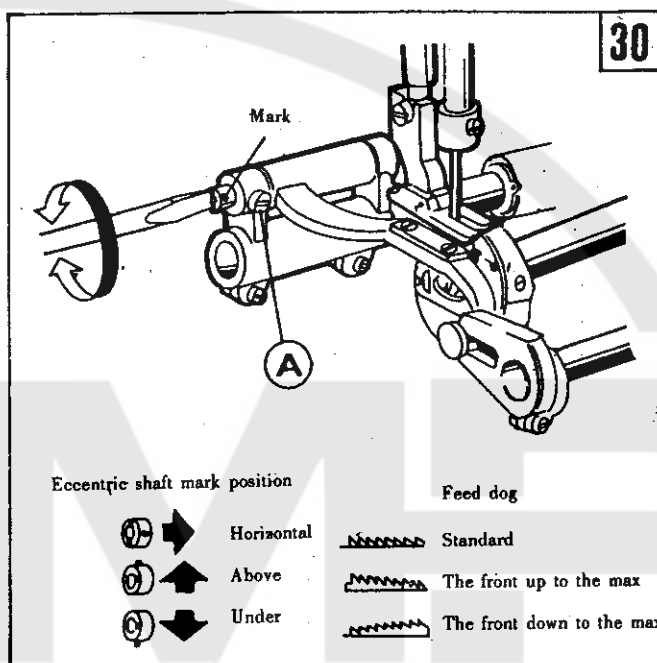
loosen Screw (A)

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

Tighten Screw (A).

The front of feed dog is higher, which can prevent perckering and no skipping.

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

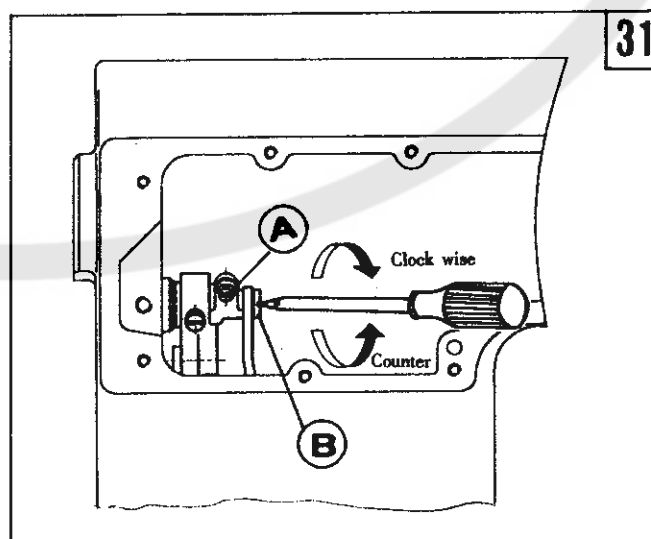


## 25. Stitch length error adjustment (Fig 31)

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

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

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

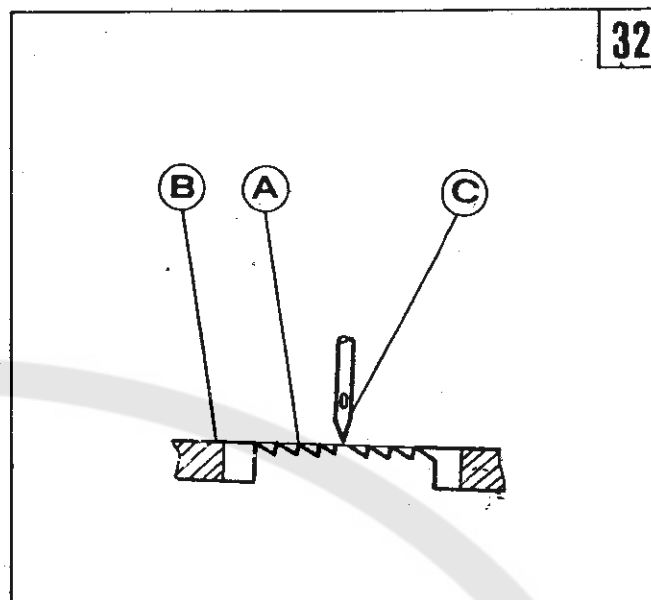


## 26. Feed timing adjusting (Fig 32, 33, 34)

### 1 Standard position

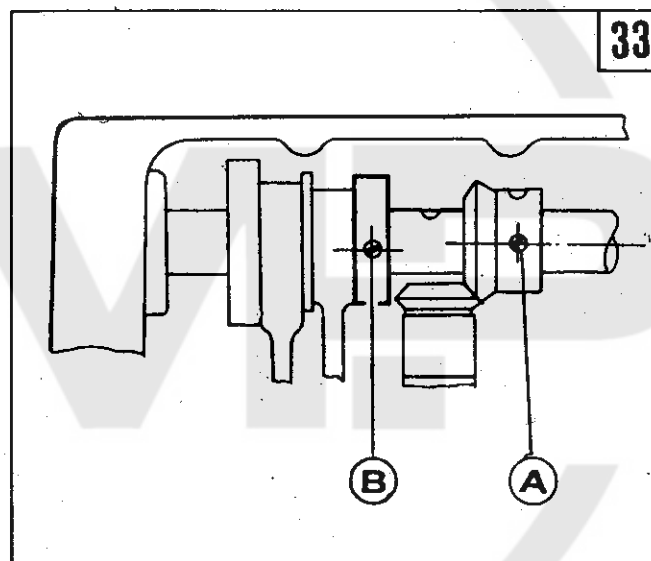
Turn balance wheel to lower Feed dog (A) till it is horizontal with the surface (B) of throat plate, at the moment, the tip of needle (C) should be horizontal with the surfaces of throat plate and feed dog.

Adjustment can be done by adjusting the position of feed cam and feed dog lift cam.



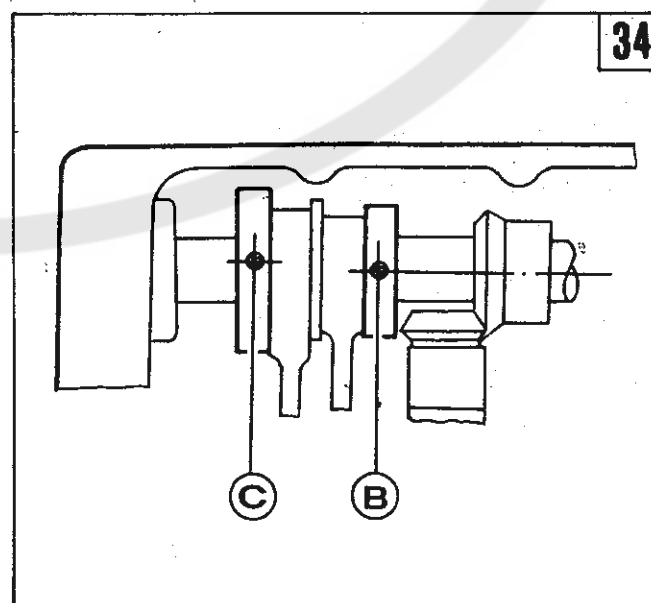
### 2 Installing feed dog lift cam (See Fig 33)

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



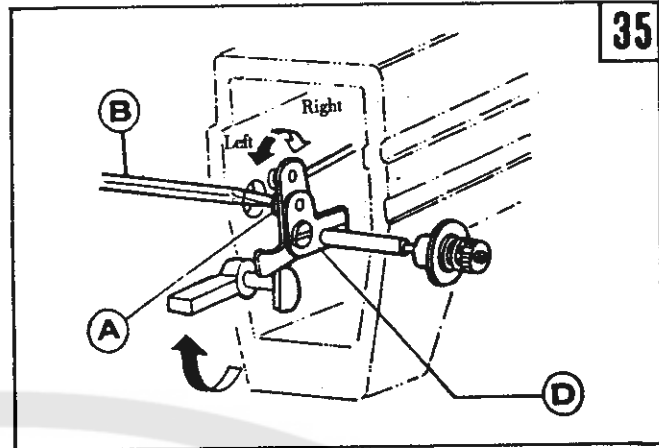
### 3 Installing feed cam (See Fig 34)

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



## 27. Adjusting the tension releasing mechanism (Fig.35)

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



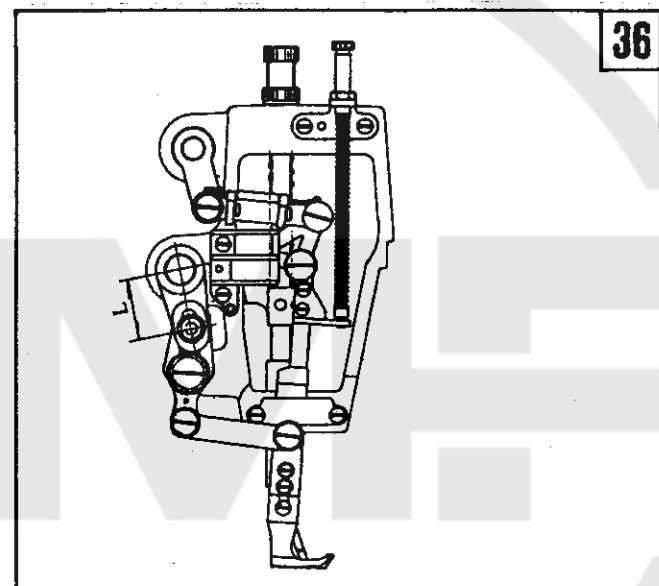
## 28. Upper feed adjustment (Fig 36)

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

Method: Increase L —the upper feed amount enlarged

reduce L —the upper feed amount shorten

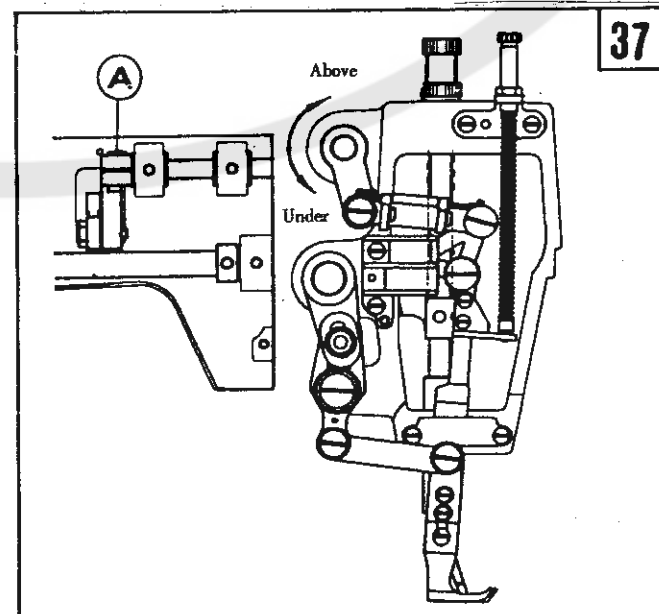
For special sewing requirements, for example, the upper layer of material needs more amount than the lower layer does, in this case, adjustment can be done in the range of above theory for operation.



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

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

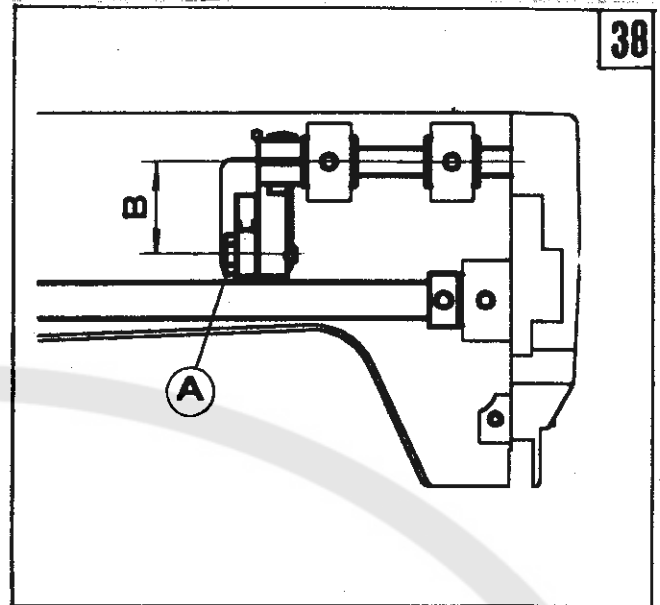
Method: loosen the screw A, turn presser foot front crank upward to increase the amount of walking foot; turn it downward to reduce the presser foot amount. the range of adjusting amount is not too large. After adjustment, tighten the screw.





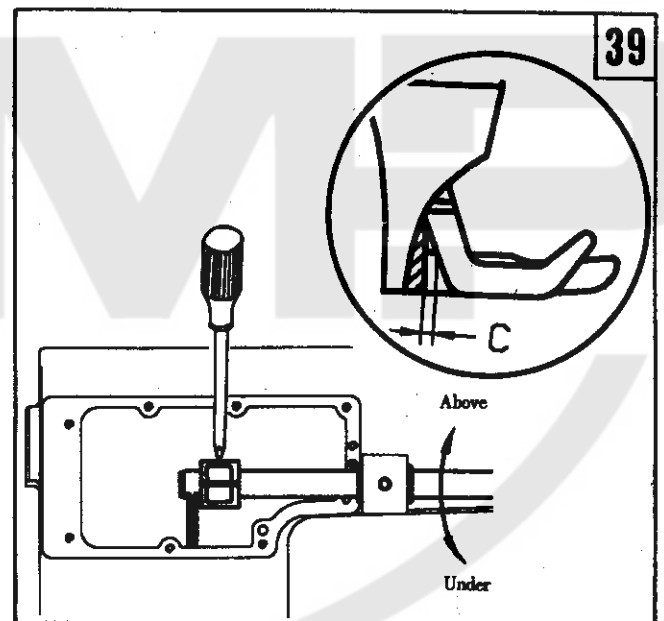
### 30. Adjusting the lift amount of presser foot together with walking foot (Fig 38)

The lift amount of walking presser foot together with presser foot can also be adjusted slightly. When adjusting, loosen screw (A) adjust its center distance B between the screw (A) and the presser foot lift shaft. The lift amount is increased as to shorten the center distance B, and the lift amount is decreased as to widen the center distance B. After adjustment, tighten the nut again.



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

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

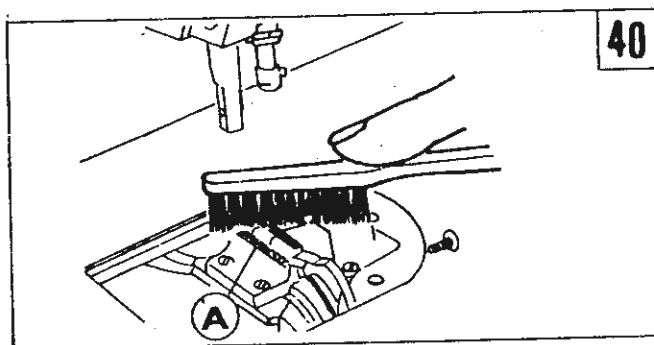


### 32. Periodical cleaning (Fig 40, 41, 42)

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

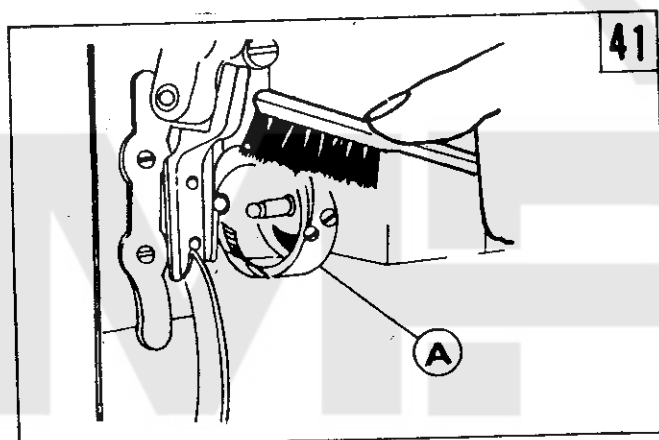
### 1 Cleaning the feed dog

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



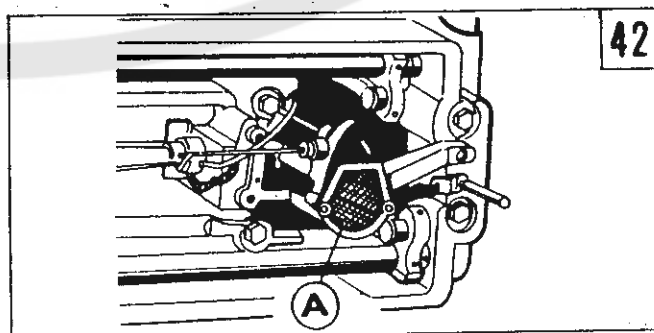
### 2 Cleaning the rotating hook

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



### 3 Cleaning the oil pump filter screen

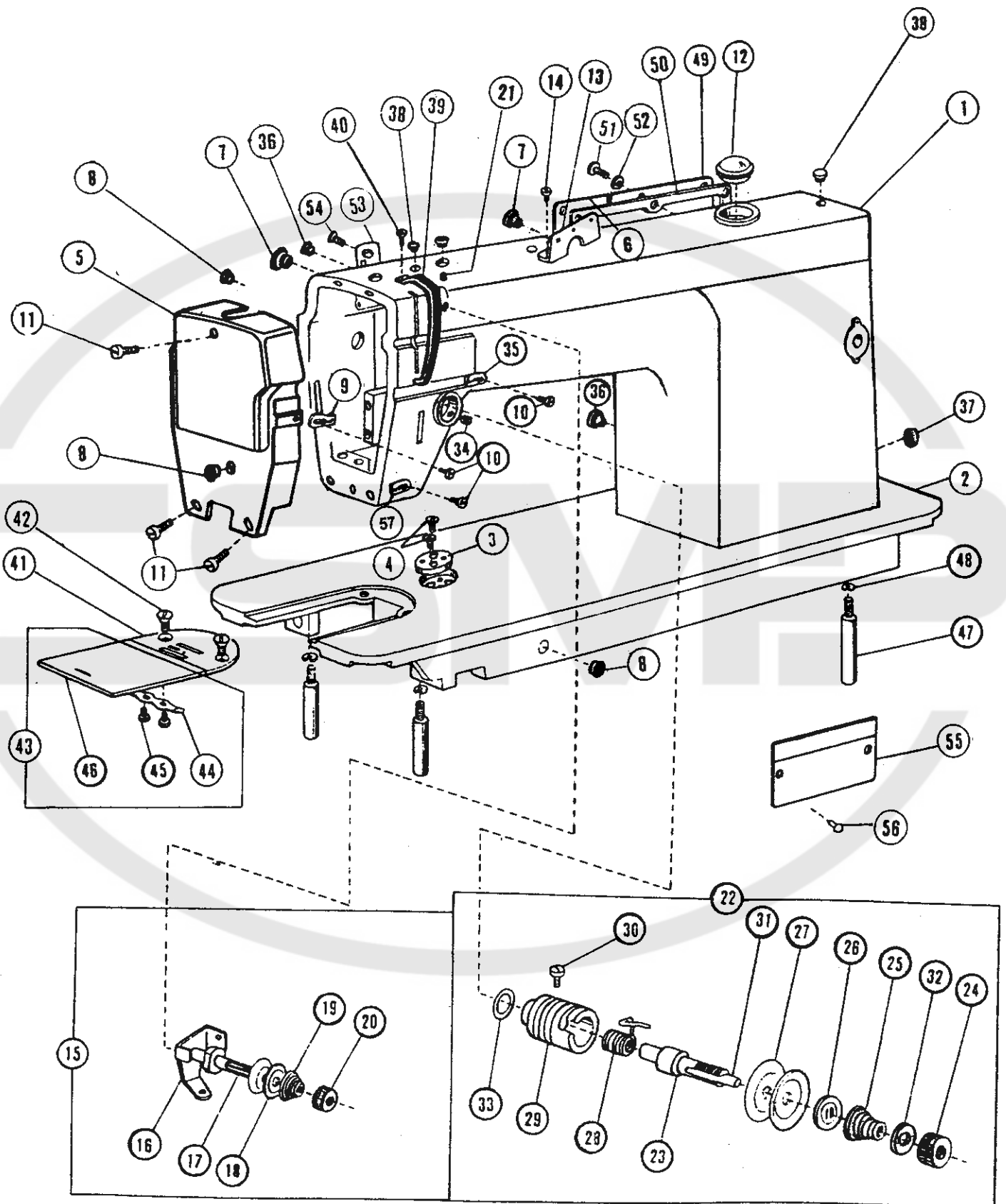
Take off the oil filter, clean off the dust of filter screen (A) with gasoline.



# **Parts Catalogue**

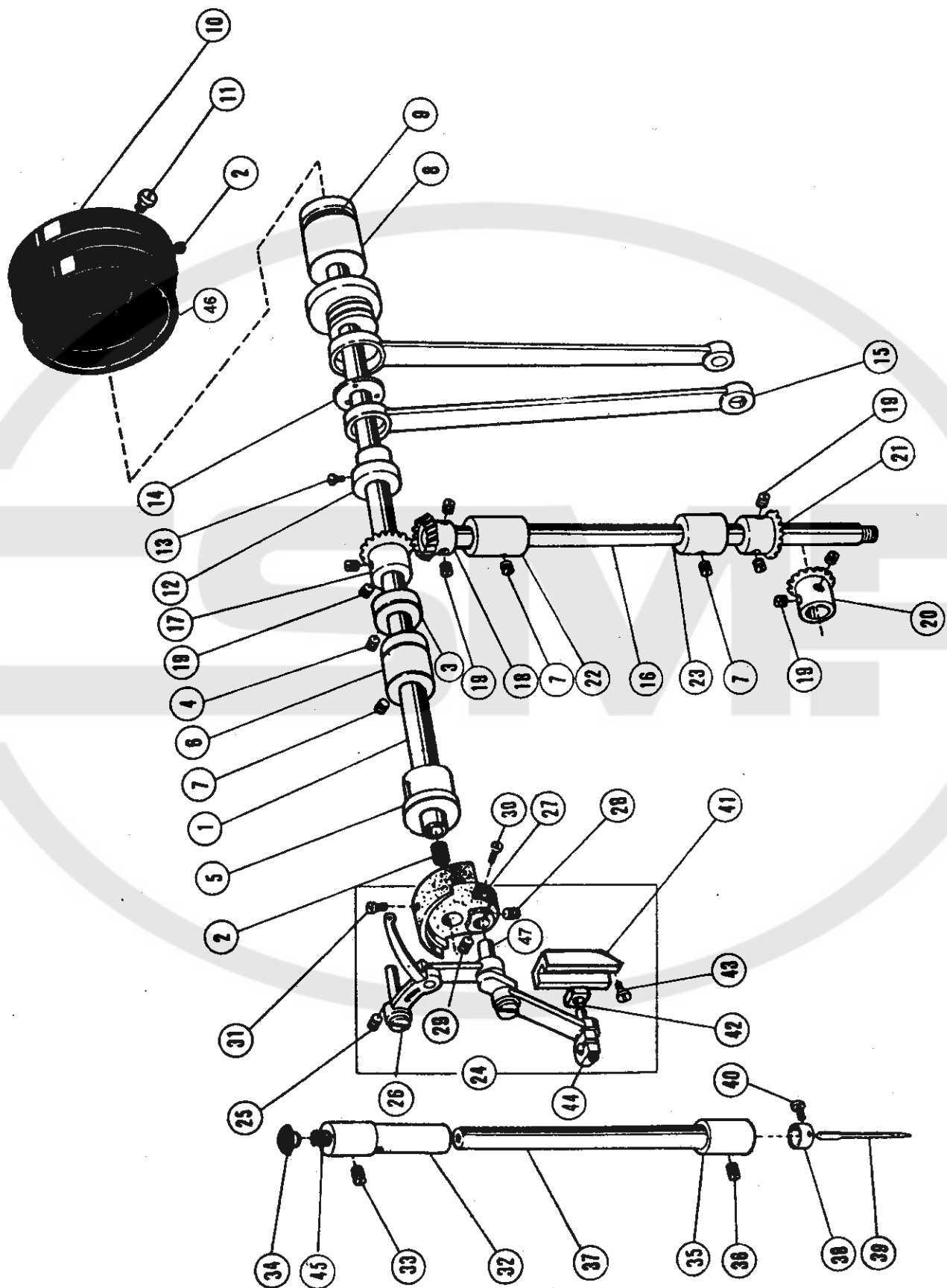
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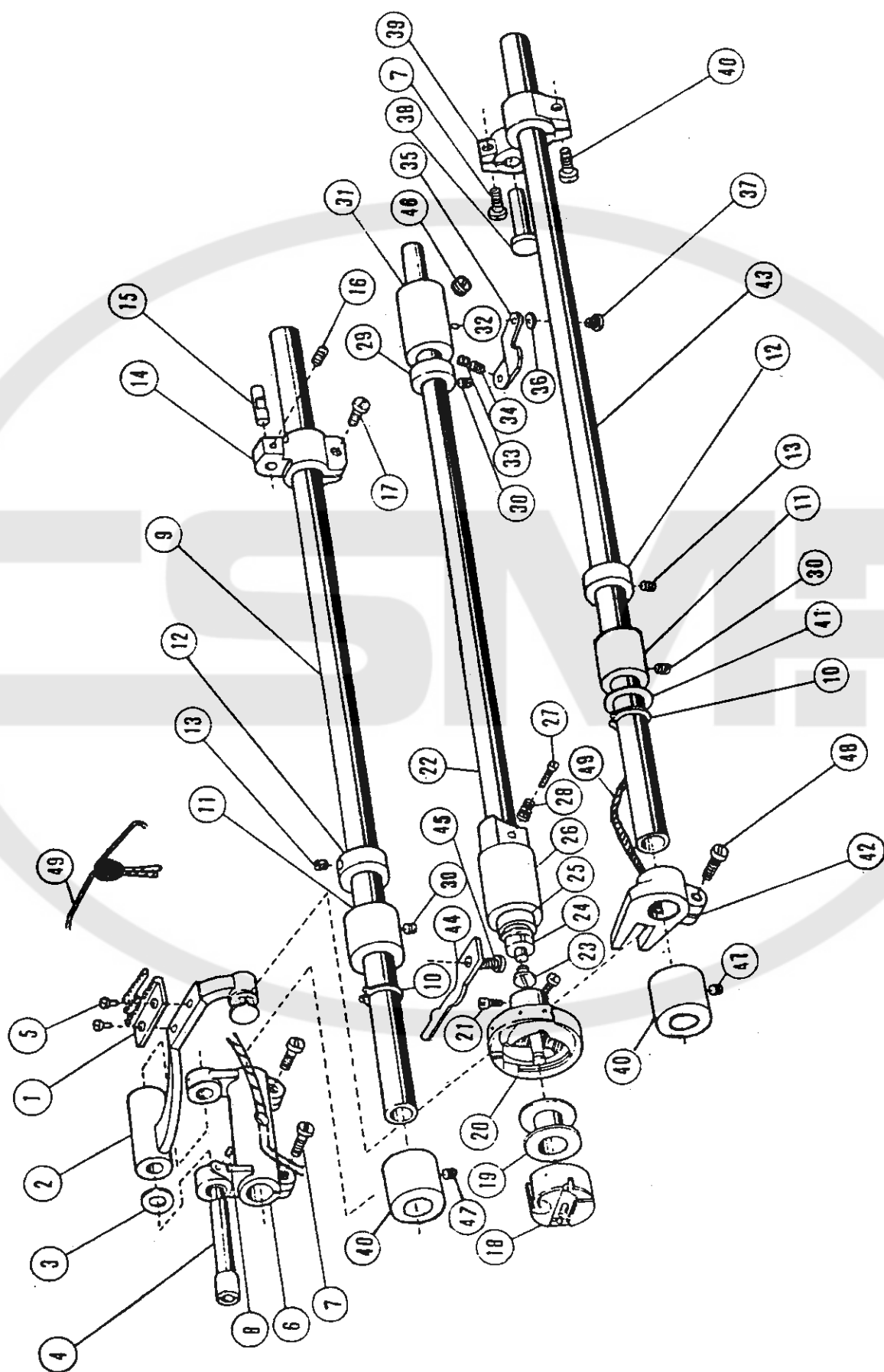
## 1. Machine Arm and Bed

No.	Name	Part number	Qt.
1	Arm	7WF4-002(11WF4-004)	1
2	Bed	7WF4-001	1
3	Holder	7WF4-005	1
4	Screw	1WF3-025	2
5	Face plate	7WF4-003	1
6	Side plate	7WF4-010	1
7	Rubber plug (Φ19)	22T1-003C3	3
8	Rubber plug (Φ11.8)	22T1-003C4	1
	Rubber plug		1
	Rubber plug		1
9	Thread finger	22T1-003C5	1
10	Screw	22T1-003C6	3
11	Screw	7WF4-004	3
12	Oil screen complete	22T1-004H	1
13	Three-eye finger	36T2-004	1
14	Screw	36T2-005	1
15	Thread tension complete	36T2-006D	1
16	Thread pass-by plate	36T2-006D1	1
17	Screw	36T2-006D2	1
18	Tension disc	22T1-009E3	2
19	Spring	36T2-006D3	1
20	Nut	36T2-006D4	1
21	Set screw	22T1-011	1
22	Thread tension complete	22T1-012F	1
23	Screw	22T1-012F1	1
24	Nut	22T1-012F2	1
25	Spring	33T4-008C1	1
26	Thread releasing plate	22T1-012F4	1
27	Thread tension disc	22T1-012F5	2
28	Thread take-up spring	22T1-012F6	1
29	Thread tension adjusting bracket	22T1-012F7	1
30	Screw	22T1-012F8	1
31	Thread releasing pin	22T1-012F9	1
32	Stopping plate	22T1-012F10	1
33	O-type ring	22T1-012F11	1
34	Set screw	22T1-013	1
35	Thread finger	22T1-014	1
36	Rubber plug (Φ8.8)	22T1-015	2
37	Rubber plug (Φ27)	22T1-016	1
38	Rubber plug (Φ5.7)	22T1-017	2
39	Thread take-up lever guard	33T4-007	1
40	Screw	7WF4-017	1
41	Throat plate	34T4-012-A(11WF4-003)	1
42	Screw	22T1-020	2
43	Sliding plate complete	7WF5-006	1
44	Spring	20T1-013F2	1
45	Screw	20T1-013F3	2
46	Sliding plate	7WF4-006	1
47	Bed leg	7WF4-013	3
48	Washer		3
49	Back side cover complete	7WF4-007	1
50	Seal gasket	7WF4-008	1
51	Screw	22T1-006	10
52	Washer	22T1-007	10
53	Oil retaining plate	7WF4-011	1
54	Screw	22T4-004	1
55	Trade mark plate	7WF4-012(11WF4-001)	1
56	Rivet		2
57	Lower Thread Finger	7WF4-015(11WF4-002)	



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

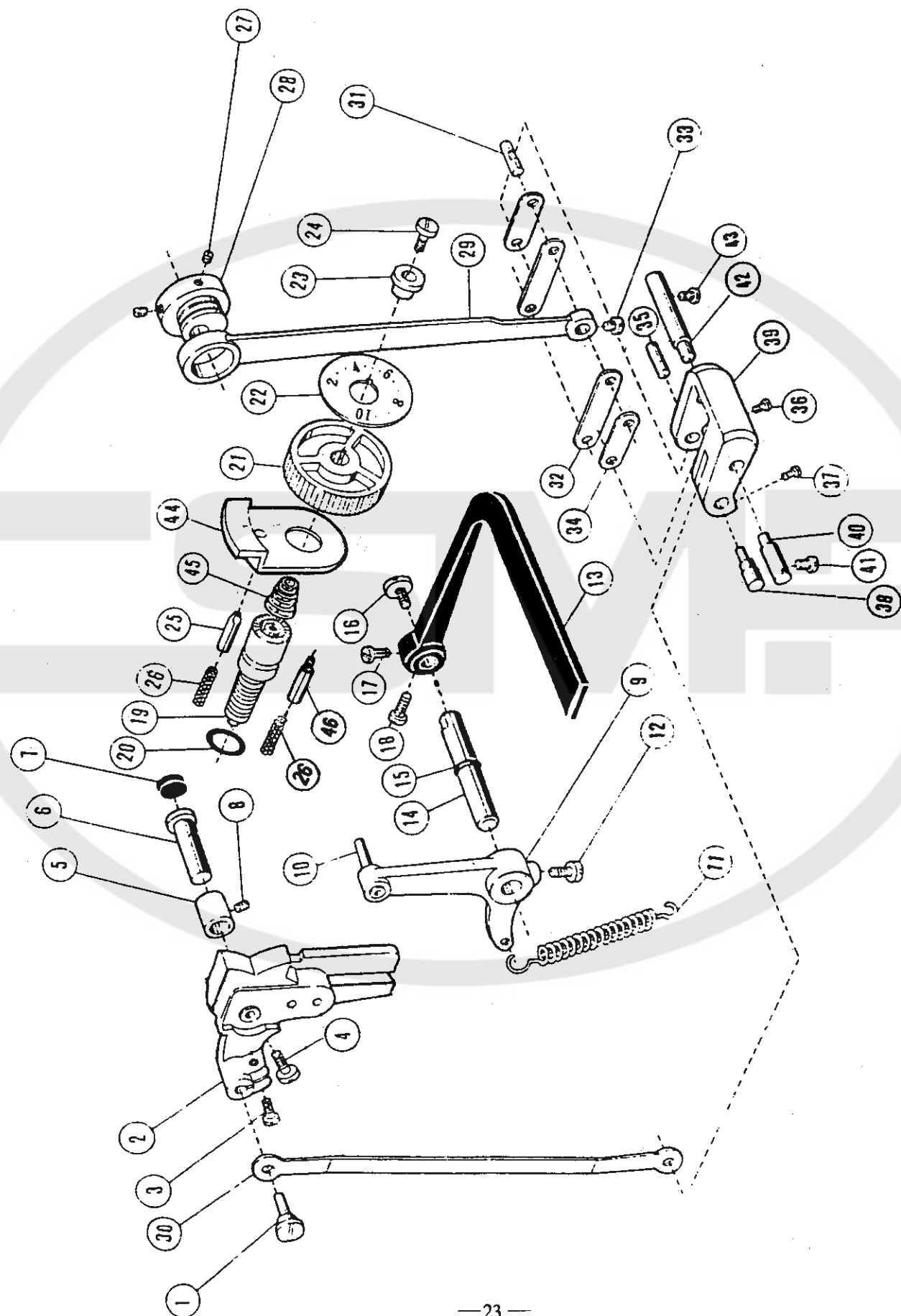
No.	Name	Part number	Qt.
1	Arm shaft	4WF1-001A	1
2	Rubber plug	22T3-001A	2
3	Collar	22T3-002B1	1
4	Screw	22T3-002B2	2
5	Front bushing	33T1-007D1	1
6	Middle bushing	4WF1-002	1
7	Screw	JO.0.40	3
8	Rear bushing	22T3-005	1
9	Oil seal complete	22T3-006F	1
10	Screw	22T3-008	1
11	Screw	22T3-007C2	2
12	Feed dog lift cam	36T3-003D1	1
13	Screw	36T3-003D2	3
14	Seperating piece for cam	36T3-004	1
15	Link	22T3-009D1C	1
16	Vertical shaft	15WF1-001	1
17	Bevel gear	22T3-010E2a1-2	1
18	Vertical shaft bevel gear (upper)	22T3-010E2a2-2	1
19	Screw	22T2-005B3	8
20	Rock shaft bevel gear	22T3-010E2b1-2	1
21	Vertical shaft bevel gear (lower)	22T3-010E2b2-2	1
22	Vertical shaft bushing (upper) complete	4WF1-003A	1
23	Vrerical shaft bushing (lower) complete	33T1-023P	1
24	Thread take-up lever complete	33T1-023A	1
25	Screw	JO.0.40	1
26	Hinge pin	33T1-002	1
27	Needle bar crank	33T1-006C1	1
28	Screw	33T1-006C3	1
29	Set screw	22T2-005B3	1
30	Screw	33T1-006C2	1
31	Set screw	61-04-01/B2	1
32	Needle bar upper bushing	22T2-008	1
33	Screw	JO.0.35	1
34	Rubber plug	22T2-011	1
35	Needle bar lower bushing	34T1-001	1
36	Screw	22T2-013	1
37	Needle bar	33T1-017	1
38	Thread finger	22T2-015	1
39	Needle		1
40	Screw	22T2-017	1
41	Rail	33T1-012	1
42	Sliding block	33T1-013	1
43	Screw	22T2-019	2
44	Needle bar adaptor	22T2-001A8	1
45	Felt		1
46	Balance wheel	7WF1-001	1
47	Washer	33T1-005	1





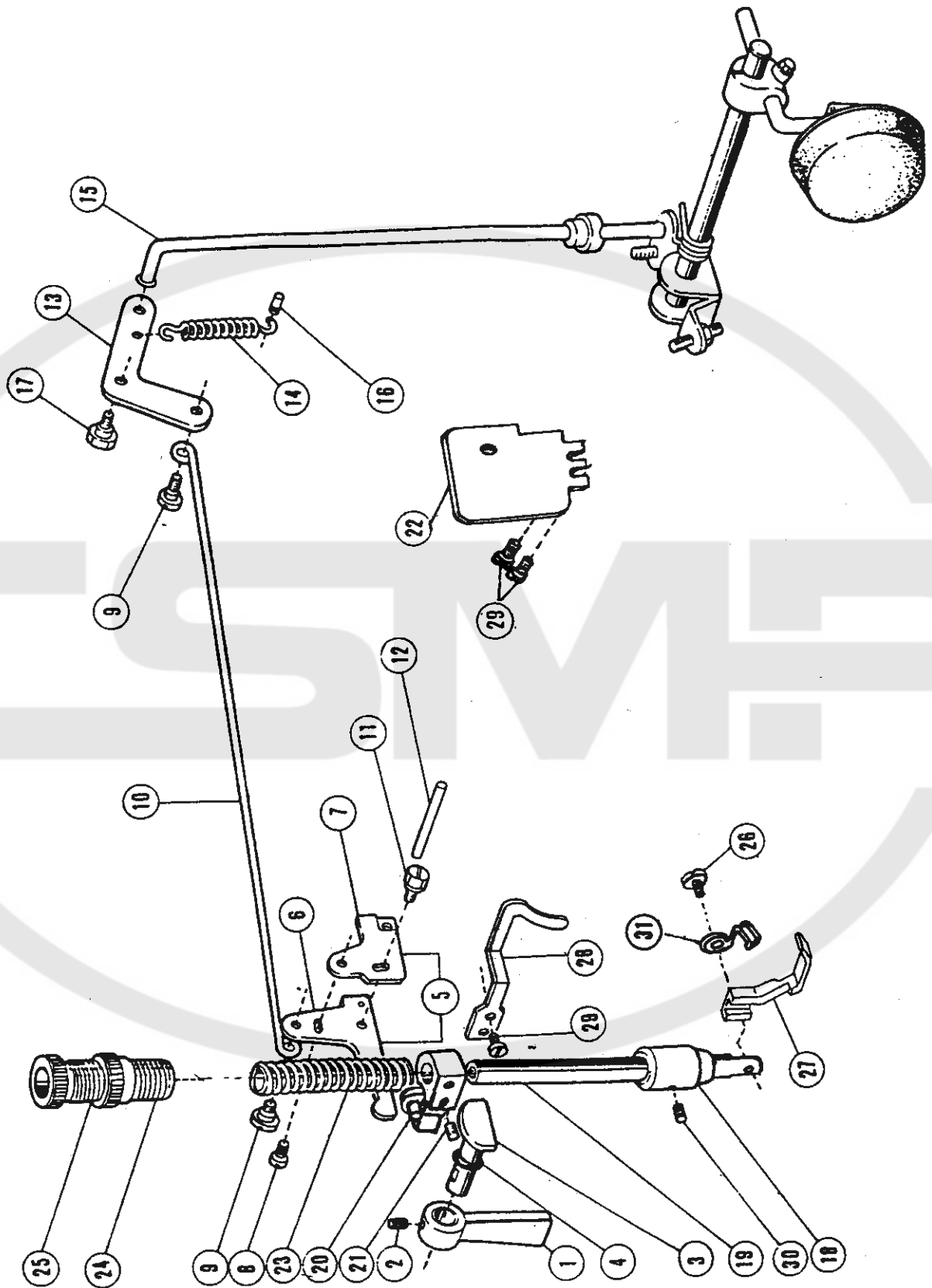
### 3.Feed Dog Lift And Feed And Thread Looping

No.	Name	Part number	Qt.
1	Feed dog		1
2	Feed dog support complete	20T3-007(4WF2-001)	1
3	Washer	36T4-001A1a	1
4	Eccentric shaft	51T5-001A1b	1
5	Screw	36T4-001A2	2
6	Feed dog support crank	J0.0.51	1
7	Screw	4WF2-002	4
8	Screw	J0.0.71	1
9	Feed shaft	22T2-019	1
10	Stop ring	7WF2-004	2
11	Feed shaft middle bushing		2
12	Collar	7WF2-003	2
13	Screw	22T6-005B1	4
14	Feed shaft rear crank	22T3-002B2	1
15	Link pin	4WF2-006	1
16	Screw	36T4-004H01	1
17	Tension screw	36T5-008E5	1
18	Bobbin case complete	22T6-008D3	1
19	Bobbin	33T1-028R	1
20	Hook complete	33T1-027	1
21	Hook screw	33T1-018J(11WF4-005)	3
22	Rock shaft	33T1-018J3	1
23	Screw	36T4-008D1	1
24	Plug	22T4-001A1a1	1
25	Oil seal	22T4-001A1a	1
26	Front bushing	22T4-003	1
27	Screw	4WF1-005	1
28	Spring	22T4-005	1
29	Collar	22T4-006	1
30	Screw	22T4-002B1	4
31	Rear bushing	J0.0.35	1
32	Oil tube	4WF1-004	1
33	Plunge	22T4-007C2	1
34	Spring	36T4-015	1
35	Stopper	36T4-016	1
36	Washer	22T4-010	1
37	Screw		1
38	Hinge pin	22T8-009	1
39	Feed dog lift rear crank	22T6-007	1
40	Feed shaft front bushing	4WF2-003	2
41	Washer	7WF2-002	1
42	Feed dog lift fork	51T5-013	1
43	Shaft for feed dog lift fork	36T4-018H101	1
44	Hook set bracket	7WF2-001	1
45	Screw	33T1-029	1
46	Screw	22T4-015	1
47	Screw	22T1-013	2
48	Screw	J0.0.40	1
49	Wick	22T6-008D4	1



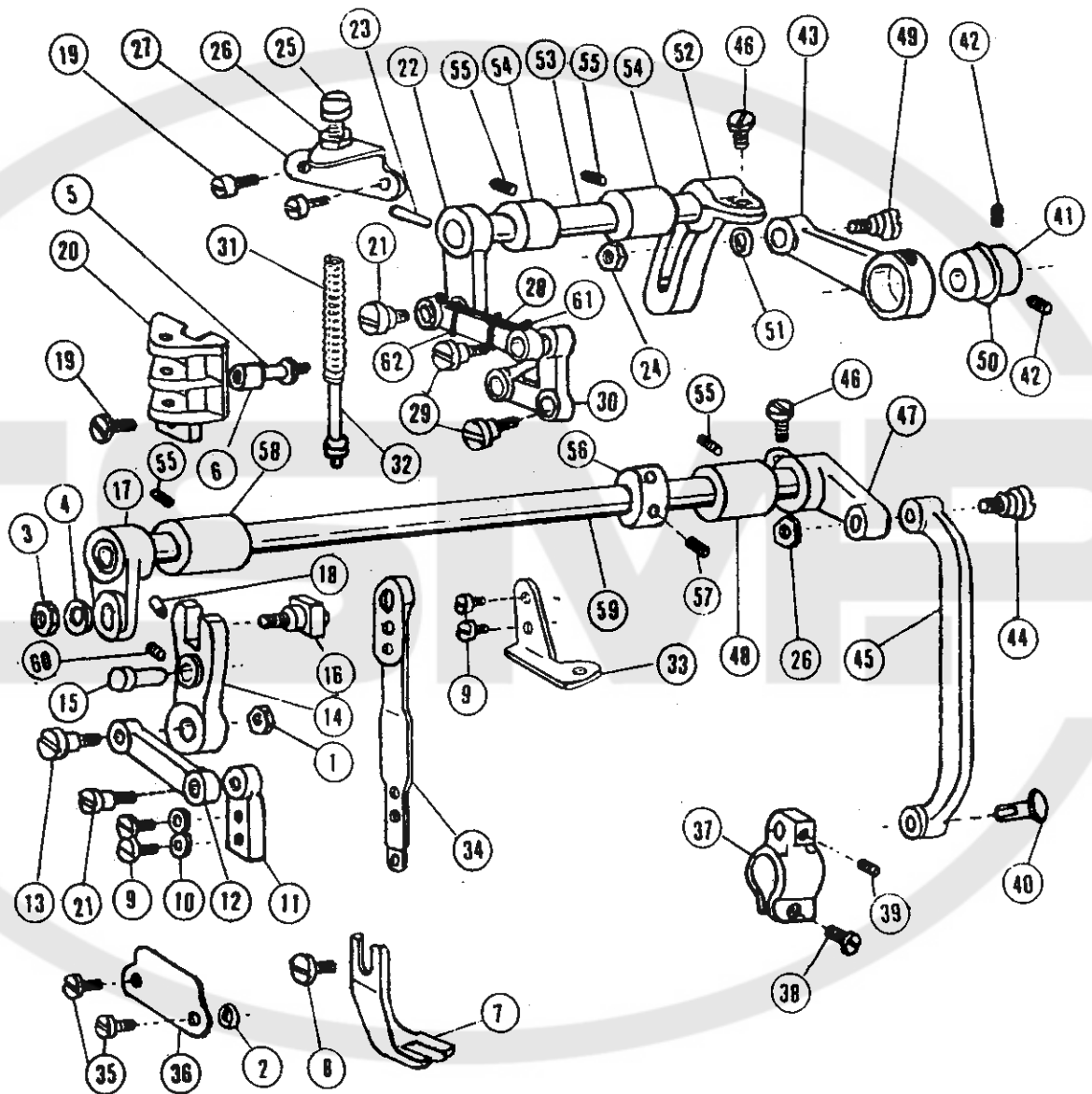
## 4.Feed Mechanism

No.	Name	Part number	Qt.
1	Link pin	36T5-001	1
2	Stitch length bracket	4WF2-005	1
3	Screw	22T6-008D3	1
4	Screw	22T5-010D4	1
5	Bushing	4WF2-008	1
6	Shaft for stitch length bracket	22T5-004	1
7	Rubber plug	36T5-003	1
8	Set screw	J0.0.40	1
9	Reverse feed lever crank	7WF2-009	1
10	Shaft for block	7WF2-008A	1
11	Spring	1KT3-002	1
12	Screw	22T5-013	1
13	Reverse feed lever	4WF2-007A	1
14	Pin shaft	22T5-010D2	1
15	O-type ring		1
16	Tension screw	22T5-010D3	1
17	Set screw	17T5-016	1
18	Screw	17T5-017	1
19	Screw bolt for stitch length	36T5-007D1	1
20	O-type rubber ring		1
21	Dial cup	36T5-007D2	1
22	Dial face	4WF2-004A	1
23	Screw bushing	36T5-007D4	1
24	Screw	36T5-007D5	1
25	Stop pin	36T5-012	1
26	SDpring	22T5-009	1
27	Screw	36T3-003D2	3
28	Feed cam	36T5-008E1	1
29	Feed link	4WF2-009A	1
30	Stitch adjusting link	4WF2-009B	1
31	Pin	82T2-003C1a10-1	1
32	Link	36T5-008E4H02	2
33	Screw	36T5-008E5	1
34	Link	36T5-008E4H01	2
35	Pin for link	82T2-003C1a10-2	1
36	Screw	36T5-008E7	1
37	Screw	36T5-008E8	1
38	Link eccentric shaft	36T5-008E9	1
39	Stitch lenbgth adjusting crank	36T5-008E10	1
40	Set pin (left)	5WF1-002	1
41	Screw	22T6-008D3	1
42	Set pin(right)	5WF1-001	1
43	Screw	22T6-008D3	1
44	Push lever	36T5-010	1
45	Spring	22T6-011	1
46	Pin	7WF2-006	



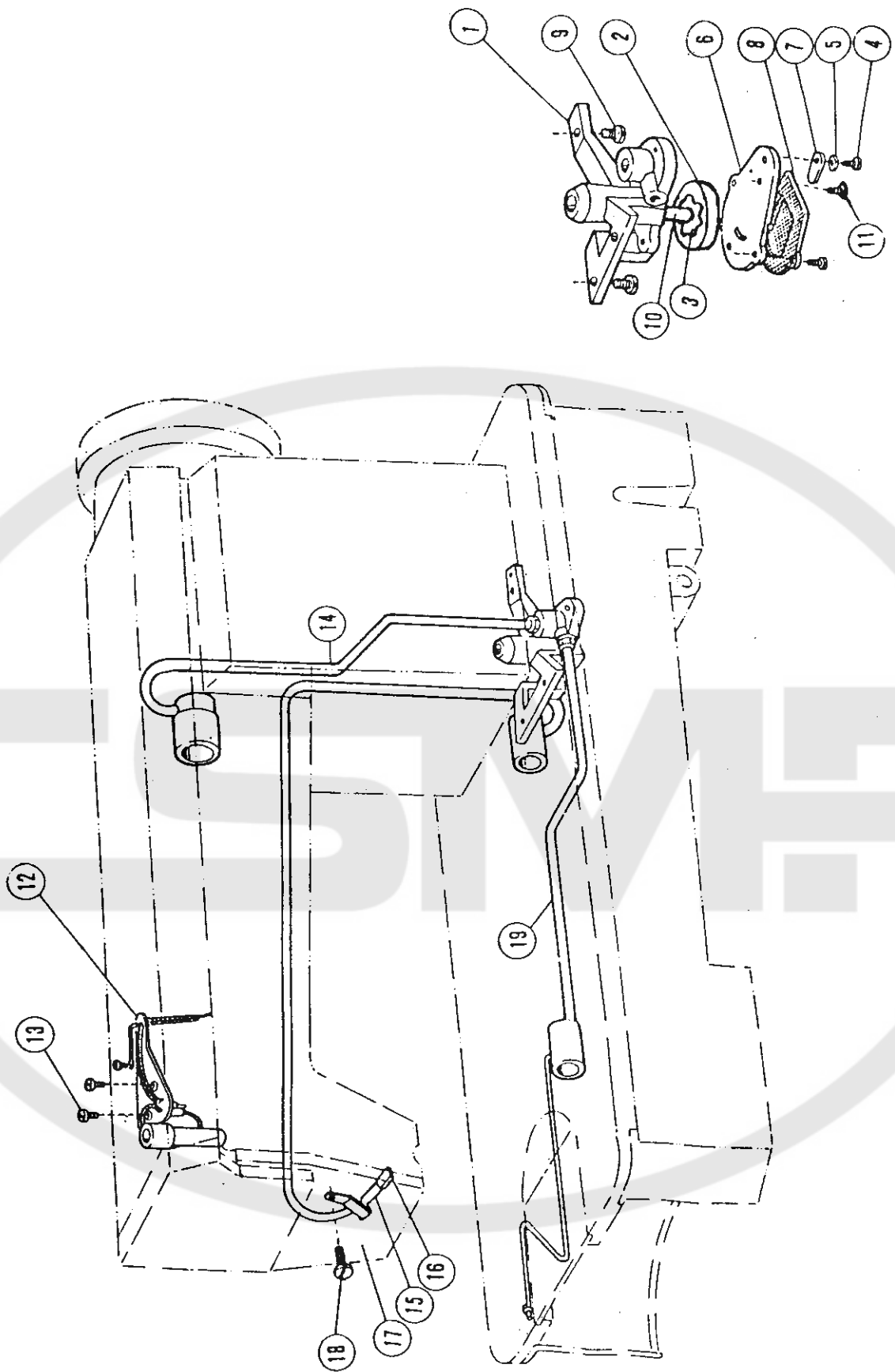
## 5.Presser Foot

No.	Name	Part number	Qt.
1	Presser foot lift bar		1
2	Screw	34T3-304	1
3	Presser bar lift cam	22T7-001A2	1
4	Oil seal	1KT4-005	1
5	Knee lifter lever(left) complete		1
6	Lever(left)	22T7-004B1	1
7	Thread releasing cam	22T7-004B1a	1
8	Screw	22T7-004B1b	1
9	Screw	22T7-004B1C	2
10	Knee lifter drawing bar	22T7-004B2	1
11	Screw	22T7-004B3	2
12	Thread releasing lever	22T7-005A	1
13	Knee lifter lever(right)	35T3-305	1
14	Spring	22T7-007C1	1
15	Connecting rod	22T7-007C2	1
16	Pin	4WF3-001	1
17	Screw	22T7-008	1
18	Bushing for presser bar	22T7-005B	1
19	Presser bar	34T3-305	1
20	Guide for presser bar	7WF3-010	1
21	Screw	7WF3-001	1
22	Oil stop plate	61-04-01/B308	1
23	Sping	7WF4-009	1
24	Screw	20T4-002	1
25	Nut	34T3-301	1
26	Screw	22T7-014E2	1
27	Presser foot	22T7-015	1
28	Thread guide	7WF3-003(11WF3-001)	1
29	Screw	7WF3-002	3
30	Screw	22T2-004	1
31	Finger guard	22T2-013	
		1KT4-003	



## 6.Upper Feed Parts

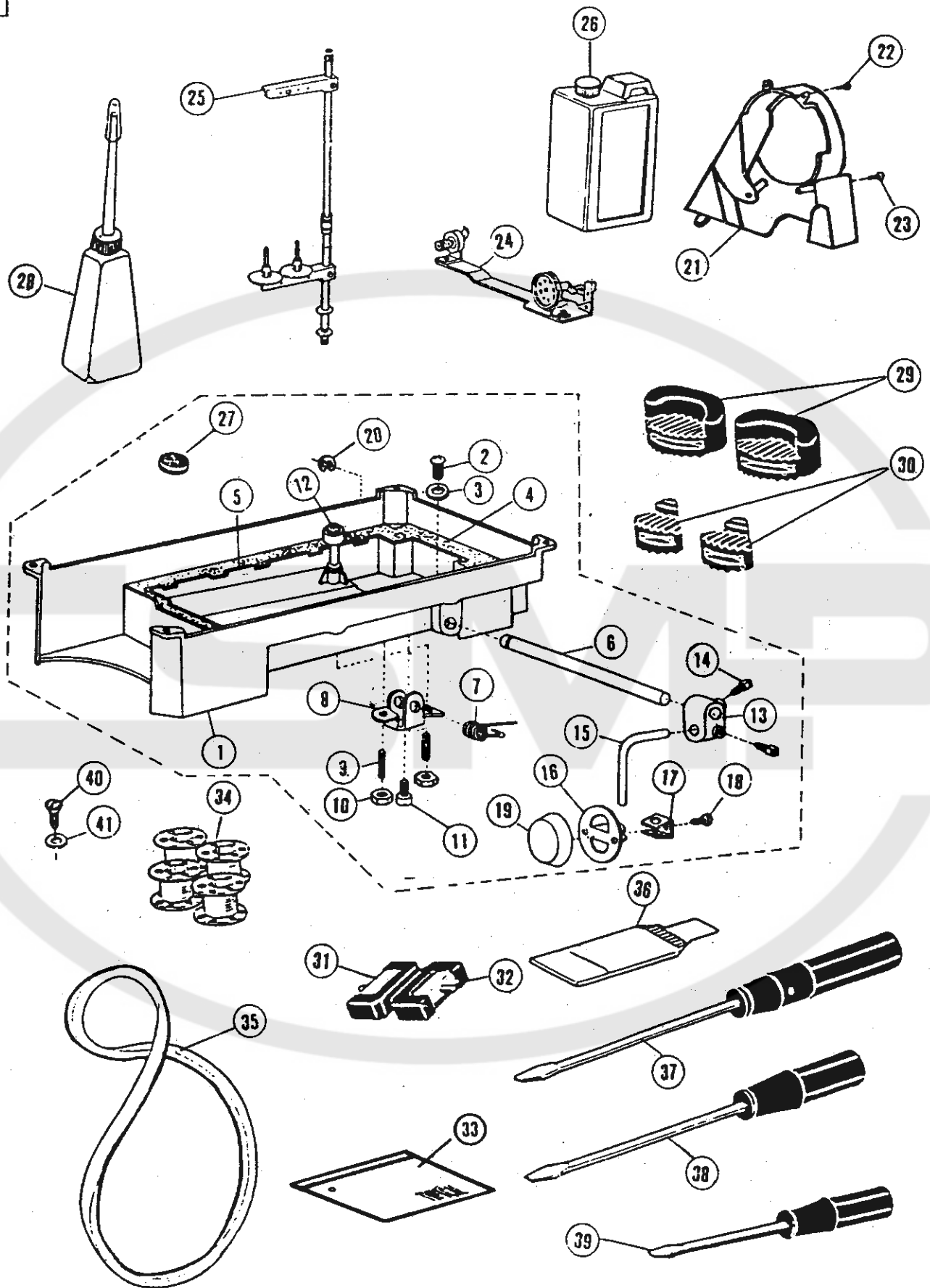
No.	Name	Part number	Qt.
1	Nut	7WF5-001	1
2	Shim	7WF5-002	2
3	Nut	7WF5-003	1
4	Washer	35T5-504	1
5	Guide shaft	7WF5-004	1
6	Needle of bearing	7WF5-005	1
7	Walking foot	7WF5-006	1
8	Screw	7WF5-007	1
9	Screw	7WF5-008	4
10	Spacer		2
11	Holder for walking foot bar	7WF5-009	1
12	Link of walking foot	7WF5-010	1
13	Screw	7WF5-011	1
14	Fork lever	7WF5-012	1
15	Pin	7WF5-013	1
16	Crank shaft complete	7WF5-014A	1
17	Front crank	7WF5-016	1
18	Pin		1
19	Screw	7WF5-017	4
20	Guide plate	7WF5-018	1
21	Screw	7WF5-019	2
22	Crank	7WF5-020	1
23	Pin		1
24	Nut		1
25	Screw	7WF5-021	1
26	Nut	7WF5-022	2
27	Bracket for adjusting screw	7WF5-023	1
28	Link	7WF5-024	1
29	Screw	7WF5-025	2
30	Presser foot feed crank	7WF5-026	1
31	Spring	7WF5-027	1
32	Guide pin	7WF5-028	1
33	Set plate	7WF5-029	1
34	Walking foot lever	7WF5-030	1
35	Screw	22T6-008D3	2
36	Presser plate	7WF4-002	1
37	Feed sheft middle crank	5WF4-002	1
38	Screw	J0.0.71	1
39	Pin screw	36T5-008E5	1
40	Connecting pin	5WF4-001	1
41	Eccentric cam	7WF5-032	1
42	Screw	7WF5-033	2
43	Link complete	7WF5-034A	1
44	Screw	7WF5-037	1
45	Link	7WF5-038	1
46	Screw	7WF5-039	2
47	Rear crank	7WF5-040	1
48	Rear bushing	7WF5-041	1
49	Screw	7WF5-042	1
50	Split ring		2
51	Washer	7WF5-049	1
52	Link adjusting crank	7WF5-043	1
53	Presser foot lift shaft	7WF5-044	1
54	Bushing	7WF5-045	2
55	Screw	J0.0.05	4
56	Collar	22T3-002B1	1
57	Screw	22T3-002B2	2
58	Front bushing	7WF5-046	1
59	Presser foot swing shaft	7WF5-047	1
60	Screw	7WF3-048	1
61	Wick		1
62	Wick clamp		3





## 7. Oil Pump

No.	Name	Part number	Qt.
1	Oil pump	15WF4-003	1
2	Big gear for oil pump	15WF4-006	1
3	small gear for oil pump	15WF4-007	1
4	Screw		3
5	Washer	22T8-005	1
6	Cover for oil pump	15WF4-004	1
7	Adjusting plate for oil pump	22T8-007	1
8	Filter complete	22T8-008A	1
9	Screw for oil pump	22T8-009	3
10	Shaft for oil pump	15WF4-005	1
11	Screw		2
12	Oil wick set plate complete	22T8-001	1
13	Screw	22T8-012	2
14	Oil pipe complete for upper shaft	22T8-013	1
15	Oil return pipe	22T8-014	1
16	Oil felt	22T8-015	1
17	Oil return pipe clamp	22T8-016	1
18	Screw	22T8-004	1
19	Oil pipe complete for lower shaft	22T8-011B	1



### 3.Oil Reservoir and Accessories

No.	Name	Part number	Qt.
1	Oil reservoir	4WF5-001	1
2	Screw	22T9-001A2	2
3	Washer	22T9-001A3	2
4	Gasket(small)	22T9-001A4	1
5	Gasket(big)	22T9-001A5	1
6	Hinge pin	22T9-001A6	1
7	Spring	22T9-001A7	1
8	Knee lifter stop bracket	22T9-001A8	1
9	Screw	22T9-001A9	2
10	Nut	22T9-001A10	2
11	Screw	22T3-007C2	1
12	Knee lifter prop bar	22T9-003B1	1
13	Connector	22T9-003B2	1
14	Screw	22T9-003B3	2
15	Bent rod	22T9-003B4	1
16	Bell	22T9-003B5	1
17	Bell bracket	22T9-003B6	1
18	Screw	22T9-003B7	1
19	Pat	22T9-003B8	1
20	Split stop ring		1
21	Belt guard complete	1KT6-001	1
22	Screw		2
23	Screw		2
24	Thread winder complete	S14420020	1
25	Spool stand complete	CJX-2	1
26	Oil tank	22T9-017	1
27	Magnet	22T9-013	1
28	Oil pot	33TF-011	1
29	CUSHION	22T9-009	2
30	CUSHION	22T9-010	2
31	Hinge	33T1-004	2
32	Rubber coat	22T9-007F2	2
33	Parts bag	33TF-010	1
34	Bbbin	33T1-027	5
35	V-type belt		1
36	Needle	33TF-015	1Pack
37	Screwdriver(big)	33TF-012	1
38	Screwdriver	33TF-013	1
39	Screwdriver(small)	33TF-014	1
40	Wood screw	33TF-017	2
41	Washer	33TF-018	2

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