



HIGHLEAD

GK31058 SERIES

Fiatbed Interlock Stitch High-Speed Sewing Machine

Instruction Manual
Parts Catalog

SHANGHAI HUIGONG NO.3 SEWING MACHINE FACTORY

From the library of: Superior Sewing Machine & Supply LLC

CONTENTS

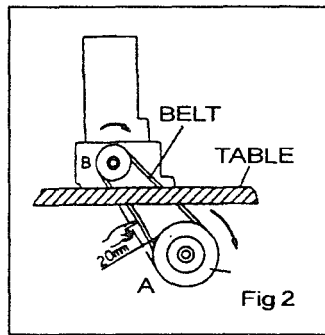
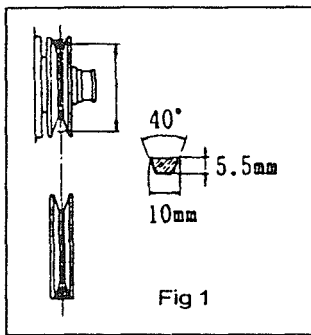
1、 Introduction-----	1
2、 Mode and Specification -----	1
3、 Installation-----	1
4、 Sewing Speed and Setting up of Pulley -----	2
5、 Lubrication -----	2
5-1 Oil to be Used -----	2
5-2 Feeding of Oil-----	2
5-3 Oil Sight Gauge and Check Procedure of Oil Cycling-----	3
5-4 Exchange of Oil-----	3
5-5 Cleaning of Filter and Screen-----	4
6、 Proper Operation-----	3
6-1 Needles to Be Used, Fitting of Needles; Needle Thread and Needle Device-----	3
6-2 Threading-----	4
6-3 Operation of Spring-out Type Bobbin Thread Guide -----	4
6-4 Thread Tension-----	4
6-5 Pressure of Presser Foot and Its Adjustment-----	5
6-6 Adjusting of Stitch Length-----	5
6-7 Adjusting of Differential Feeding-----	6
7、 Proper Adjusting of Machine-----	6
7-1 Tension of Needle Thread-----	6
7-2 Adjusting of Needle Thread Upper Eyelet -----	6
7-3 Adjusting of Ornamental Thread -----	6
7-4 Adjusting of Looper Thread -----	7
7-5 Positioning of Looper Thread Take-up Cam-----	7
7-6 Remove and Fitting of Presser Foot and Its Height -----	7
7-7 Relation of Needle and stitch plate -----	8
7-8 Fitting Angle and Height of Looper -----	8
7-9 Distance (M) Between Needle and Looper -----	8
7-10 Adjusting of Needle Bar-----	8
7-11 Timing of Needle With Looper Moving Right/Left-----	8
7-12 Relative Postioning of Needle and Looper in Front/Rear-----	8
7-13 Adjusting of Needle Guard(Rear) -----	9
7-14 Adjusting of Needle Guard(Front) -----	9
7-15 Height of Feed Dog -----	9
7-16 Paralleling of Feed Dog With Stitch Plate-----	9
7-17 Fitting of Ornamental Looper and Its Adjusting -----	10
7-18 Fitting of Ornamental Thread Guide -----	10
7-19 Fitting of Ornamental Thread Eyelet -----	10
7-20 Adjusting of Swing Scope of Ornamental Looper -----	10
7-21 Exchange of Upper Shaft Driving Belt -----	10
8、 Parts book -----	12

4. Sewing Speed and Setting Up of Pulley (Fig1)

The highest sewing speed is 6000r.p.m. and ordinary one is 4800r.p.m.

However, it is preferable to operate the new machine at 4,000r.p.m. in about 200 hours, after which at 4800 r.p.m. ordinary speed. This manner will help life fo machine to be much longer.

Turning direction of pulley (A) is clockwise as well as handwheel (B), which is shown in (Fig 2).



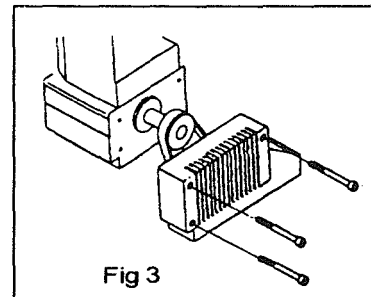
The machine should use clutch motor of one or three phase,bipolar,400W and v belt of type "Z".

Table 1

r.p.m	Motor Pulley Size		Belt
	60Hz	50Hz	
6000	105	125	36"
5500	95	115	
5000	85	105	35"
4500	80	95	
4000	70	85	34"

To position the motor, make both Center lines of motor pulley and machine pulley be aligned when motor pulley is shifted to left side while pedaling.

After fixing of motor in correct position, fit on belt guard cover. (Fig 3)



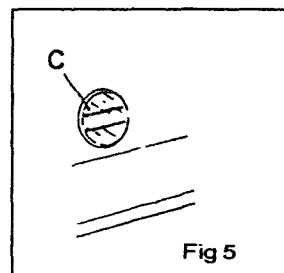
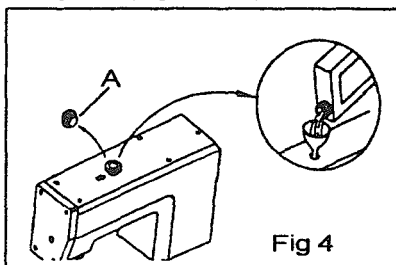
5. Lubrication

5-1 Oil to Be Used

Use white oil No.7 as lubricant

5-2 Feeding of Oil

Because oil will have been drained completely from machine at shipment, it must be filled in reservoir up to upper line of oil gauge(C). (Fig 4, Fig 5)



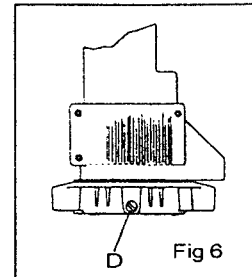
5-3 Oil Sight Gauge and Check Procedure of Oil Cycling.

Check Oil sight gauge everyday before operation and replenish oil if its face is below underline of the gauge. Looking through Oil sight top nozzle before operation, observe the flowing of oil (Fig.4)

5-4 Exchange of Oil

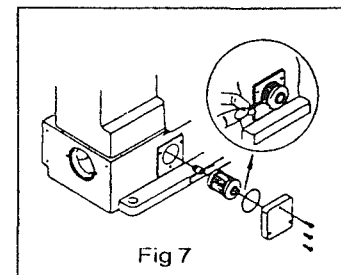
To keep the machine longer life, oil should be changed completely after the initial use around 200 hours, then change oil 2 or 3 times yearly, Change of oil shall be made according to the following order (see Fig 6)

- a. Remove v belt from motor pulley, then remove machine head from supporting board
- b. Remove belt guard
- c. Remove drain screw (D) and drain oil
- d. Retighten screw (D) correctly
- e. As for replenishment of oil, refer to "Feeding of Oil"



5-5 Cleaning of Filter and Screen

When the filter is blocked up, the oil supply will be affected. Usually, it should be cleaned 2 or 3 times yearly. Some-times, although there is sufficient oil in oil reservoir, no oil could be spreaded form the nozzle In t he case, the operator should turn off the machine immediately, clean or exchange the filter. Whenever oil feeding or exchanging of oil, cleaning of filter, care must be taken, not to contaminate V belt and timing belt inside the machine. As for the remove procedure of oil filter, refer to Fig 7



6. Proper Operation

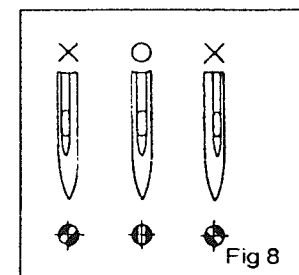
6-1 Needle to Be Used, Fitting Of Needle and (1) and (2) Device

The machine uses needles of Model UY 128 GAS. There are many sizes of needles. So that suitable size to the nature of sewing materials must be selected. Generally, needle of #65-75 is the standard size for light Weight, medium weight and medium heavy fabrics and #90 for heavy duty.

German System	65	70	75	80	85	90
Japanese System	9	10	11	12	13	14

Needles should be set correctly facing their long slot to wards operator, mark (x) in Fig 8 shows incorrect setting of needle.

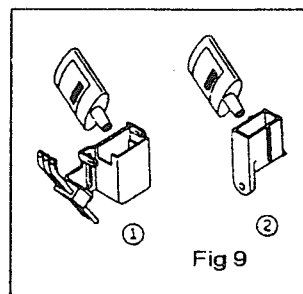
While operating machine in high speed, due to the friction occurred between needle and fabric causing stitch skipping, thread broken and the penetrated hole on the fabric will become much bigger, especially when compound thread and fabric are used.



To prevent from occurring above case, the machine is equipped standardized (1) device-for needle thread lubrication and (2) device-for needle cooling (Fig.9)

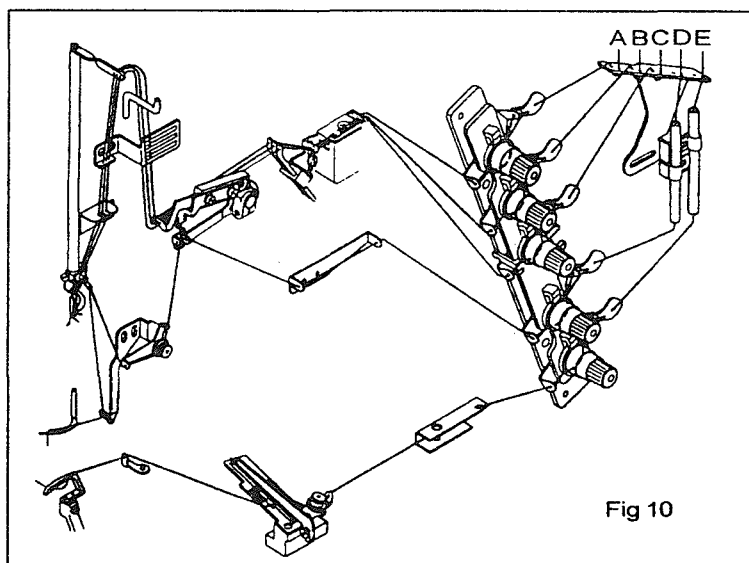
To achieve most efficient effect of these devices, silicon oil should be used. Generally, we suggest to use these devices as much as possible and often open the covers of them, check the oil amount and make feeding of silicon oil in time.

If these devices are not necessary, it's better for you to take out felt from (1), (2) devices and not let the needle tips and thread to touch them.



6-2 Threading

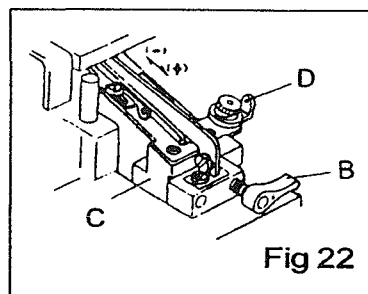
Threading the machine as shown in Fig 10, A.B.C indicate needle thread, D stand for upper ornamental thread, E presents looper thread.



6-3 Operation of Spring-out Type Bobbin Thread Guide (Fig 22)

In order to make bobbin threading easy, the machine designs to be equipped with spring-out type bobbin thread guide. Lets operation procedure is as follows:

- (1) Set needle bar to the highest position by turning hand wheel.
- (2) Press down the thread guide lever (B), let the slide bracket(C) of thread guide automatically spring out towards the separator.
- (3) Guiding the thread through thread guide eyelet (D).
- (4) Push forward the slide bracket (C) of bobbin thread guide, make it be locked and threading correctly, unless the good balance is lost in the seaming.

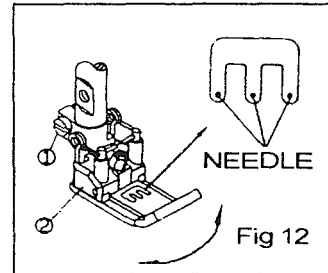
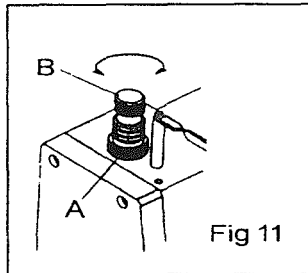


6-4 Thread Tension

Generally thread tension is decided by or according to kind of fabric, thread and seam width and stitch length. Therefore, thread tension should be adjusted as loosely as possible. As for the detailed description, please refer to "Adjusting of Thread Tension".

6-5 Pressure of Presser Foot and Its adjustment

When pressure regulating screw (B) is turned clockwise, increase the pressure of presser foot, otherwise decrease it. In perfect feeding of poor stitch will be caused if the pressure of presser foot is not set properly. So that care be taken while adjusting, to keep the pressure of presser foot as weakly as possible under the condition that stitch is uniform, if the needle doesn't drop into the center of dropping space as the illustration shows, it is necessary to make adjustment. Firstly, to loosen screw (1), and move presser foot (2), to assure the needle drop correctly. Then tighten screw (1) again. (Fig 12)



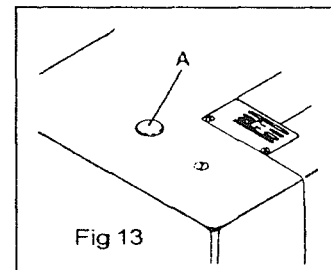
6-6 Adjusting of Stitch Length

Stitch length can be adjusted steplessly from 1.2~4mm, the table hereunder shows length and number of stitch per 1 inch or 30mm

Stitch Length	Stitch Per Inch	Stitch Per 30mm
3.6	7	8
2.4	10.5	12.5
1.4	18	21

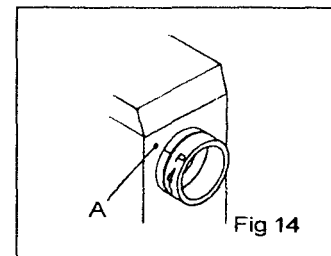
(1) How to change stitch length (Fig 13)

To change the stitch length, press pushbutton (A) softly by left hand until its finger feels button top touch parts of machine inside, then turn hand wheel by right hand until pushbutton falls in. At this moment, press the pushbutton more strongly and continue to turn hand wheel.



(2) Graduation on the circumference of hand wheel shows a stitch length in mm. (Fig. 14)

Turn hand wheel by right hand and set any of graduation as desire, the more the graduation close to the point P on arm, the longer the stitch length will be, the more the graduation close to point P, the less stitch length will be. The max. stitch length is 4mm and minimum one ~s 1.2mm.



(3) There maybe a little difference owing to kind, thickness of materials and/or the ration of differential feeding in such case, the graduation of hand-wheel must be readjust correctly.

NOTE: Motor switch must be "off", when changing length of stitch

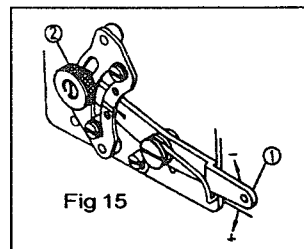
6-7 Adjusting of the Differential Feed Ratio

The differential Feed Ratio of this machine is adjustable from 1:0.5 to 1:1.3(Fig. 15)

To adjust the ratio, loosen the nut (2), move the indicator (1) up or down.

To stretch the cloth, move the indicator (1) upward;

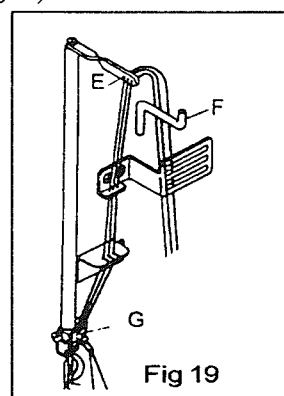
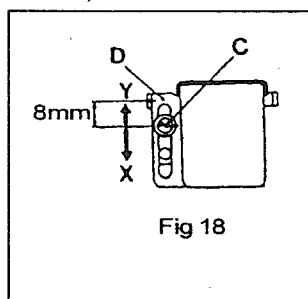
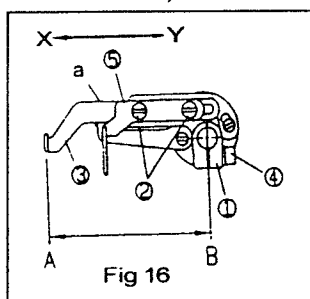
To gather the cloth, move the indicator (1) upward.



7. Proper Adjusting

7-1 Tension of Needle Thread (Fig. 16,18)

The distance between needle thread take-up (A) and center of fixing screw (B) is 75mm, When needle lever is at its highest position, This is the standard position of the needle thread take-up. After loosen screw (B), move the needle thread take-up towards (Y) direction, tighten needle thread; move it towards (X) direction, loose needle thread. If needle thread tension could not be regulated through above procedure. You'd better loosen screw (C), move "D" device towards (Y) or (X) direction, and see if the tension is satisfied. Generally, move it towards (Y) direction, tighten the needle thread, move it towards (X) direction, loosen the needle thread. (Fig 18)



In case of general sewing condition, the distance between the center of screw and thread eyelet of thread guide should be 8mm.

Sometimes, owing to the different kind of thread nature, it is hard to form thread loop, causing skip of stitch, it's better for you to press the needle thread under needle clamp thread pressing plate. Sometimes, the thread loop of left needle is formed too big, it can also be pressed under the needle clamp pressing plate. (Fig. 19)

7-2 Adjusting of Needle Thread Retainer Device (Fig. 19)

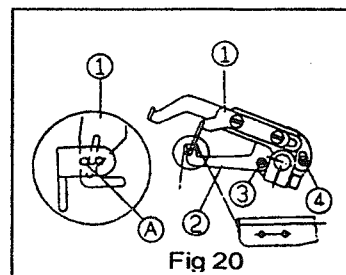
In case of stretchable thread such as synthetic thread is used, needle thread loop will be unsteady, at this moment, needle thread retainer device (F) can be used.

To adjust the retainer device, when needle bar is at its lowest position, let the eye of eyelet (E) be even with the surface of thread retainer device (F).

Make the retainer (F) up or down by loosening screw.

7-3 Tension of ornamental Thread

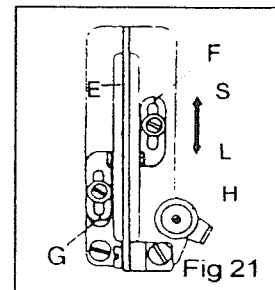
1. When the Spreader Thread Take-up (1) is adjusted to the top, the small hole (A) of the Other Spreader Thread Take-up must be at the same level with the long groove of the Spreader Thread



2. To adjust, loosen Screw (3) and (4), and move the Spreader Thread Take-up (2) up or down, and then tighten screw again. (Fig 20)

7-4 Adjusting of Tension of looper Thread

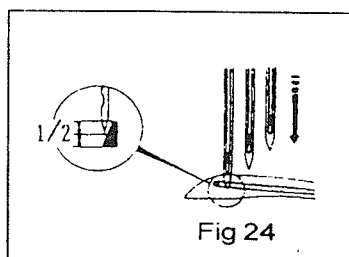
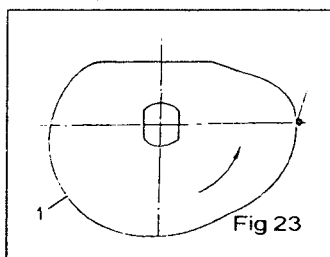
The standard positioning is that eyes of eyelet F, G, and mark "0" on cast off supporting plate are aligned. To get plenty of casting thread, loosen fixing screw of eyelets (F) and (G) move them towards direction (L), otherwise move them towards direction (S) and retighten the fixing screws in time (Fig 21).



Please pay attention to that, too much plenty of casting thread will cause skip of stitch. In case of woly thread used, thread eyelets (F) and (G) must be set fully towards direction (L) and thread should not be pressed under small thread pressing plate (H) (Fig 21)

7-5 Positioning of Looper Thread Take-up

The illustration shows thread take-up seen from side of needle bar. Lower the needle bar from the highest position by mining hand wheel. When the needle bar is at the half position of looper, loosen screw (J), and move looper thread take-up, let the looper thread cast off from the top of looper take-up cam 1, then retighten screw (J). little later. (Fig 23)



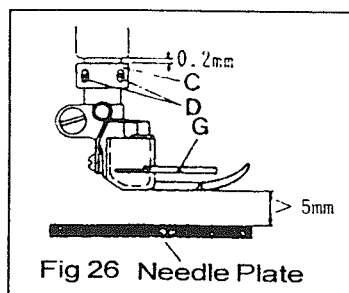
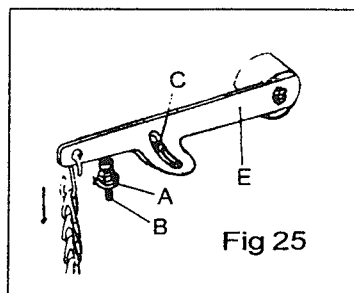
7-6 Removal and Fitting of Presser Foot To remove presser foot:

- a. Loosen regulating screw (B) and fixing screw (D) of toot stopper collar (C)(Fig 25)
- b. Push the presser foot lever (E) downwards, then presser foot can be removed.

To fit presser foot:

- a. Press down presser foot lever (E), and fit on dresser foot.
- b. Keep a distance of 5mm between bottom face of presser foot and top face of needle plate. Then fix the press foot and retighten presser foot stopper collar (C) as show in the (Fig 25 Fig 26)
- c. Readjust stopper plate (A) and retighten the screw (B).

NOTE: The raising amount of presser foot of machines without ornamental thread looper is about 8mm and it is not necessary to use the stopper collar (C).

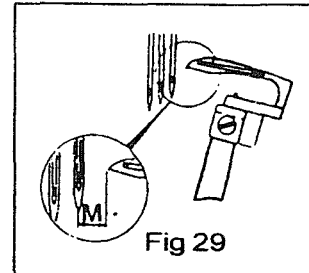
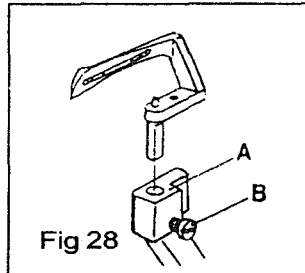
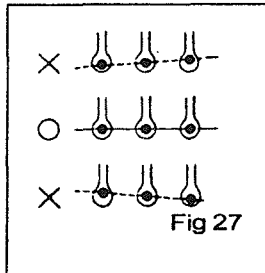


7-7. Relation between Needle and Stitch plate (Fig. 27)

When the height of needle bar is set, needles must correctly formed in line as show in the illustration solid line (Fig 27)

7-8. Fiting Angle and Height of Loper (Fig.28)

Insert looper into looper holder A as far as it will go and tighten screw B, meanwhile, fitting angle 3~ will be decided naturally.

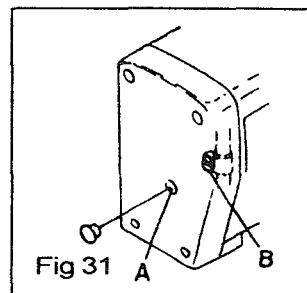
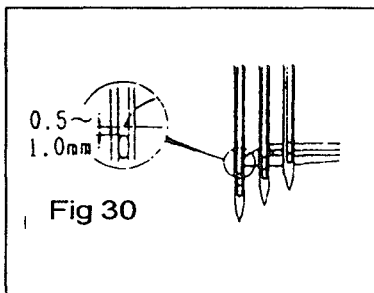


7-9 Distance (M) between Needle and Loper at Its Right End (Fig .29)

When needle are at their lowest position and looper is at its right end, distance (M) between center of right needle and point of looper shall be adjusted according to table hereunder.

7-10 Height of Needle Bar (Fig.30)

When looper tip swings to the center of left needle, the looper tip should be at position above left needle eye with a distance of 0.5-1.0mm to the top edge of left needle eye Simple to say, the height of needle bar is on the reference basis of slooper, of course, both needle and looper must be inserted as far as it will go. (Fig 31)



The height of needle bar can be set by loosening the screw (B) of needle bar linking shaft with the help of a screw driver inserted into hole (A) of face plate. (Fig. 31)

After adjustment retighten the screw (B)

7-11 Timing of Needle with Loper Moving Right/Left

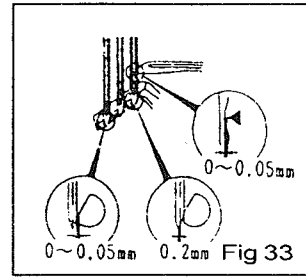
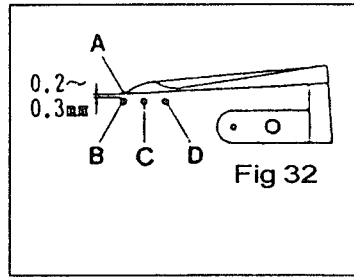
When needle bar is going up, looper must move to left from its right end, When the looper begins to move towards left, needle must be going up. This timing of needle with looper moving right or left, and this timing can be gained by regulating timing belt wheel.

7-12 Relative Positioning of Needle and Loper in Front/Rear

a. As for three needles machine (Fig 32)

When looper tip swings to the relative position of left needle, a clearance of 0.2-0.3mm must be kept. When it swings to the relative position of middle needle, a clearance of 0.05-0.1mm must be kept. When looper tip is at the

opposite of right needle, there will appear a soft touch. It is necessary to push the needle a little forward; (0.1-0.2mm) through needle guard (rear), let it keep a clearance of 0-0.05mm (Fig 33).



b. As. for two-needle machine (Fig .34)

When looper tip swings to the left needle, the clearance will be 0.2-0.3mm. When looper swings to the right needle, there will appear a soft touch, it is necessary to push the needle a little forward (0.1-0.2mm), let it keep a clearance of 0.5mm.

7-13 Adjusting of Needle Guard (rear) (Fig 34)

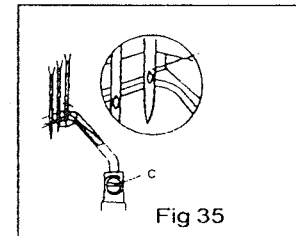
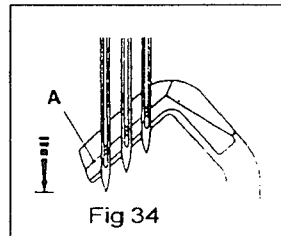
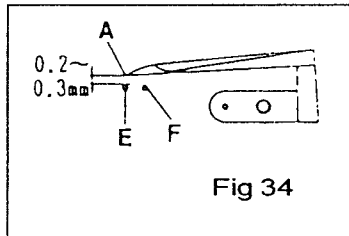
a. Height of needle guard (rear)

To adjust the edge (A) of needle guard (rear) to be even with the center of needle eye.

b. The correct positioning of needle guard (rear) should be as follows

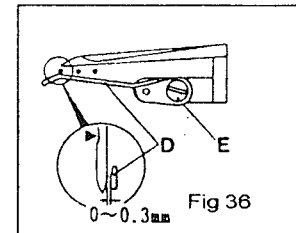
When looper tip swings to the right needle, it will push the right needle a little forward, and keep a clearance of 0-0.05mm between them (Fig.32) and a same clearance between the needle guard (rear) and left needle.

c. Adjust the needle guard (rear) by loosening fixing screw (C). (Fig. 35)



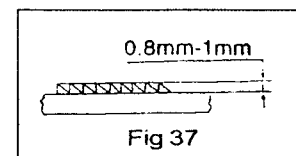
7-14 Adjusting of Needle Guard (front) (Fig.36)

When needle guard (front) swings to the left needle, to loosen the screw (E), let the needle guard (front) keep a clearance of 3mm with left needle.



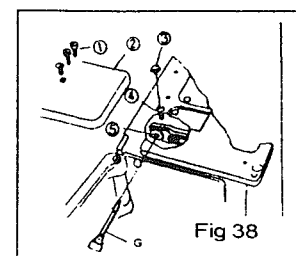
7-15 Height of Feeding Dogs (Fig.37)

When feeding dogs move to its highest, the surface of feeding dog tooth should be paralleled to the top face of stitch plate and main feeding dog and differential feeding dog should be at the same height of 0.8-1mm.



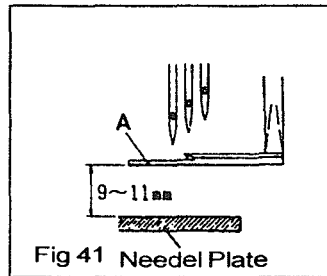
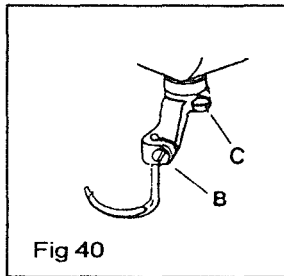
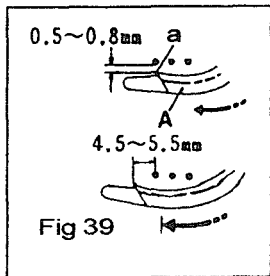
7-16 Parallel of Feeding Dog and Stitch Plate (Fig, 38)

Remove cloth plate (2) and rear cover, then to loosen the screw (4) with a screw driver passing through hole of machine body and insert a screw driver into eccentric pin to turn the eccentric pin and make the feeding dog and stitch plate parallel as required.



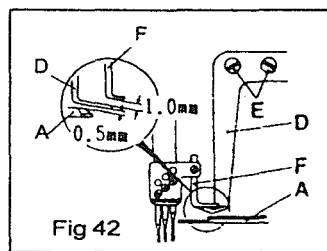
7-17 Fitting of Ornamental Looper and Its Adjusting

a. When ornamental Looper (A) move towards left, there should keep a clearance of 0.5-0.8mm between the hook point (a) and left needle. When it goes on moving to the left end above mentioned clearance should be 4.5-5.5mm. All these adjustment can be made through the screw (C), (B) (Fig 39 Fig 40 Fig 41)



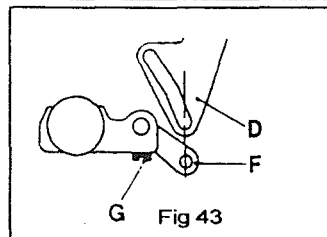
7-18 Adjusting of Ornamental Thread Eyelet (Fig.42)

On the basis of top face of looper, to adjust ornamental thread eyelet, keep a clearance of 0.5mm between ornamental thread eyelet (D) bottom and top face of looper confirm that there is no friction and hitting during sewing, then retighten fixing screw (E).



7-19 Adjusting of Small Ornamental Thread Eyelet F (Figs42, Fig43)

When the needle bar drops to its lowest, to adjust the clearance between small ornamental thread eyelet bottom and top face of ornamental thread eyelet D to about 1 mm, and fit the small ornamental thread eyelet eye to the extension of long eye of ornamental thread eyelet.

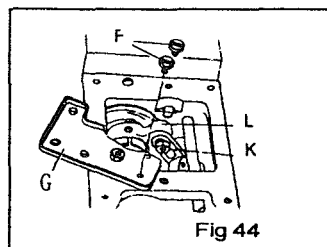


NOTE: The fitting requirement of item 15,16 and 17 above mentioned is adoptable to common thread sewing.

7-20 Adjusting of Swing Scope of Ornamental Looper (Fig.44)

In ordinary case, the swing scope of ornamental looper is set proper before shipment. But sometimes, owing to different sewing fabric or process requirement it is necessary to make readjustment as follows:

- Remove cover
- Remove screw (F) and move the oil reservoir out towards (H).
- Loosen nut (K) by a wrench, move the screw (L) down, to increase swing scope, then retighten the nut (K); otherwise, to move the screw (L) up.



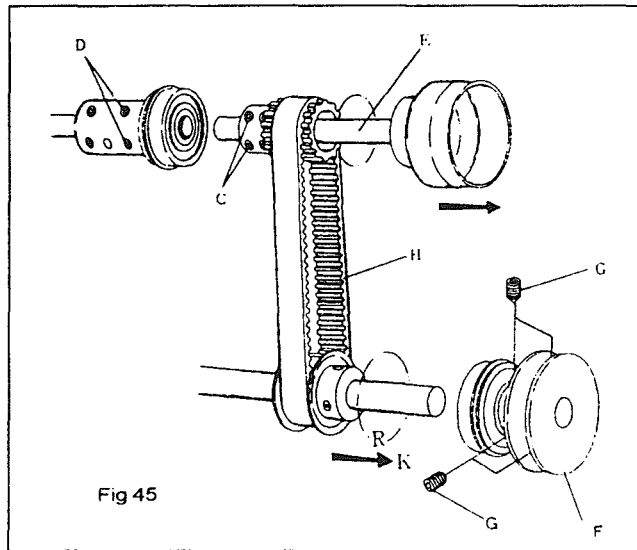
NOTE: During adjustment, care must be taken not to keep too big amount of swing scope, otherwise will cause the ornamental thread too loose and stitch loose and uneven.

7-21 Exchange of Upper Shaft Belt (Fig.45)

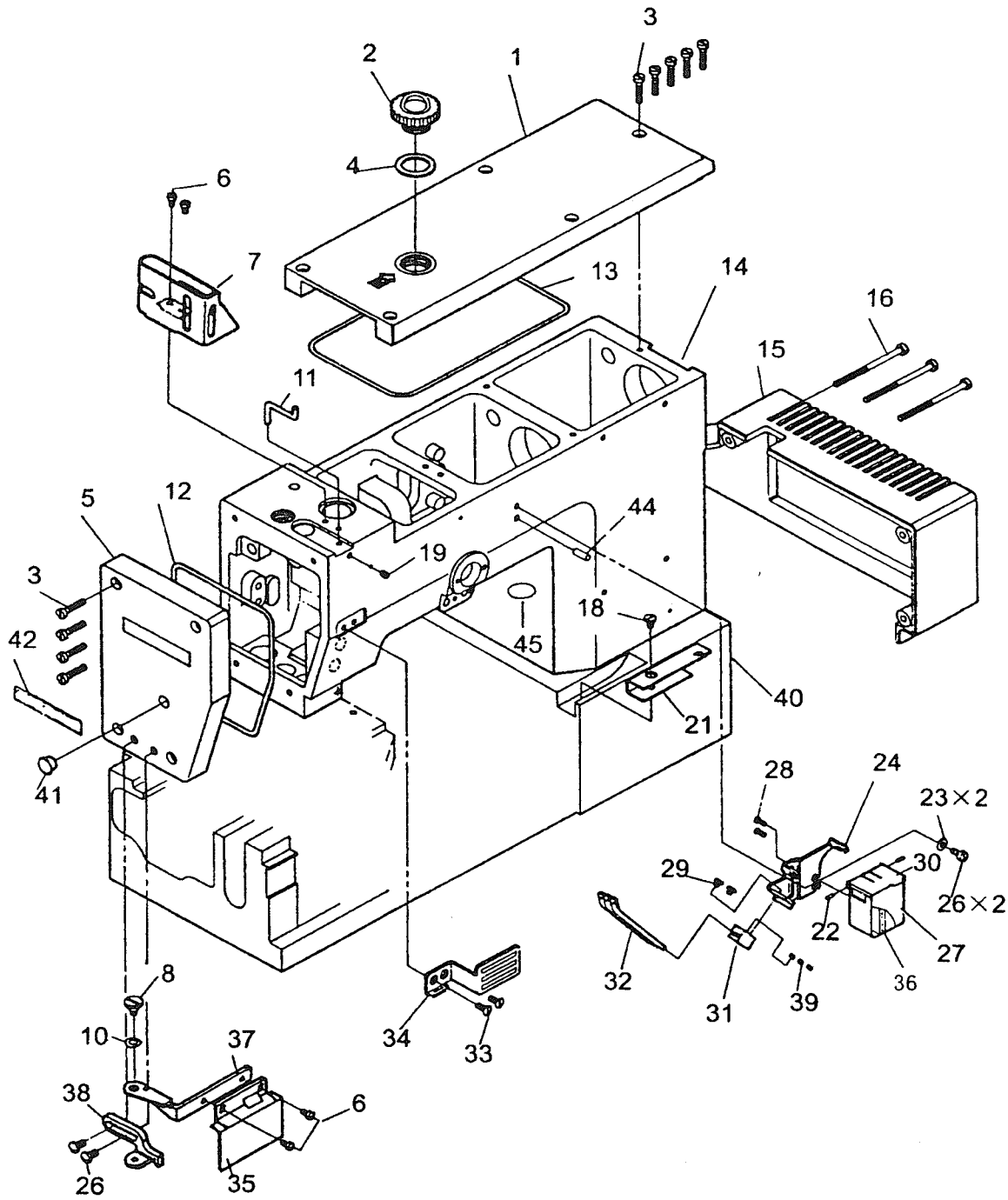
- Remove cover.
- After loosening screw (D), pull out upper shaft (E) while holding hand wheel pull upper shaft driving belt out of main shaft sprocket and as well as to remove the upper shaft from the machine.
- Loosen screw (G) on belt wheel and remove the belt wheel.
- Pull belt toward direction (K) out of the hole (R) of machine.

e. To set new upper shaft driving belt, make assembling by the order of d-c-b-a in the opposite of above-mentioned
After setting, adjust the timing between looper and needle.

f. After adjusting, tighten screw (D), (C) of pulley steadily. (Fig 45)

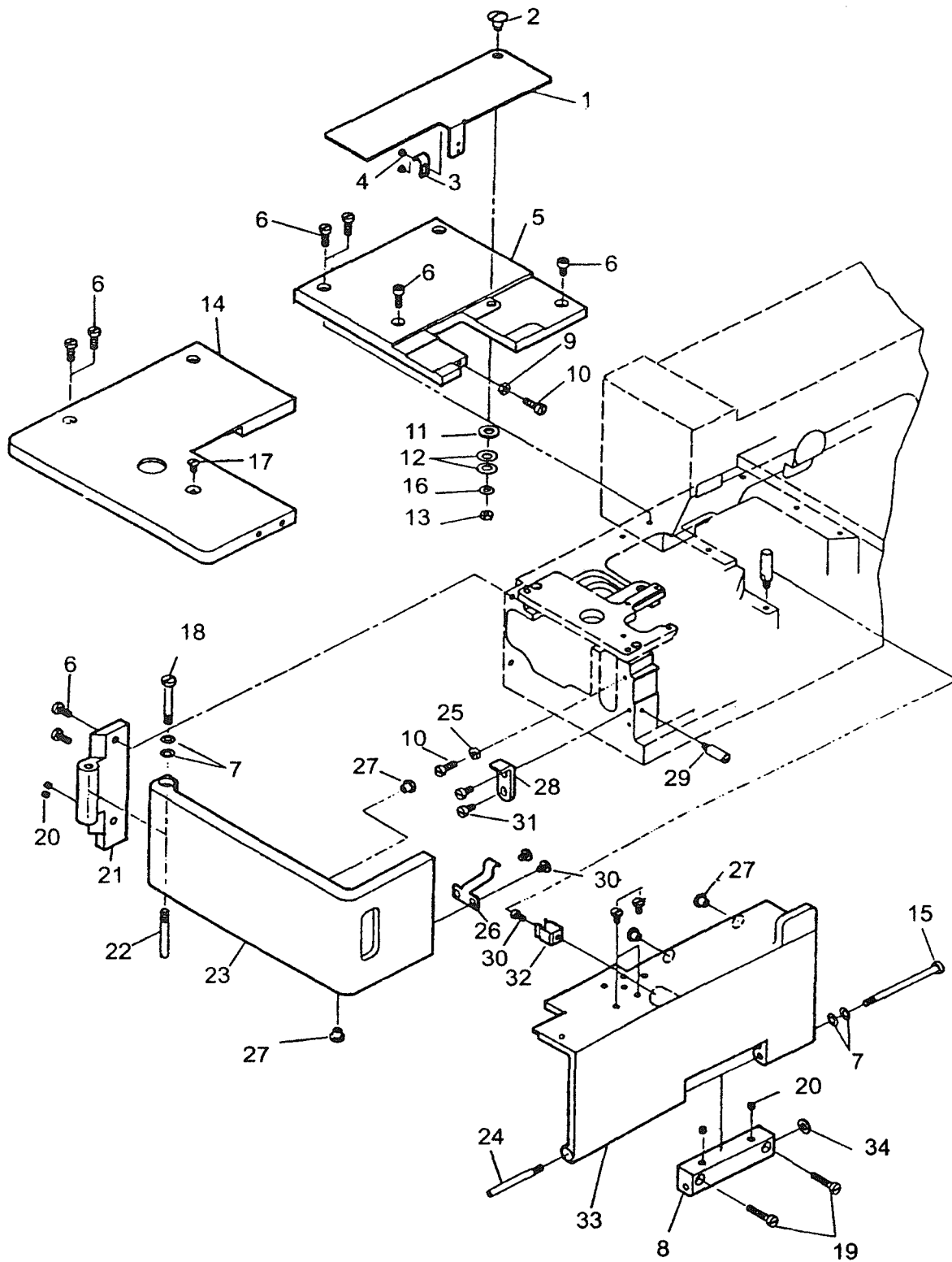


A. MACHINE BED FRAME A



A. MACHINE BED FRAME A

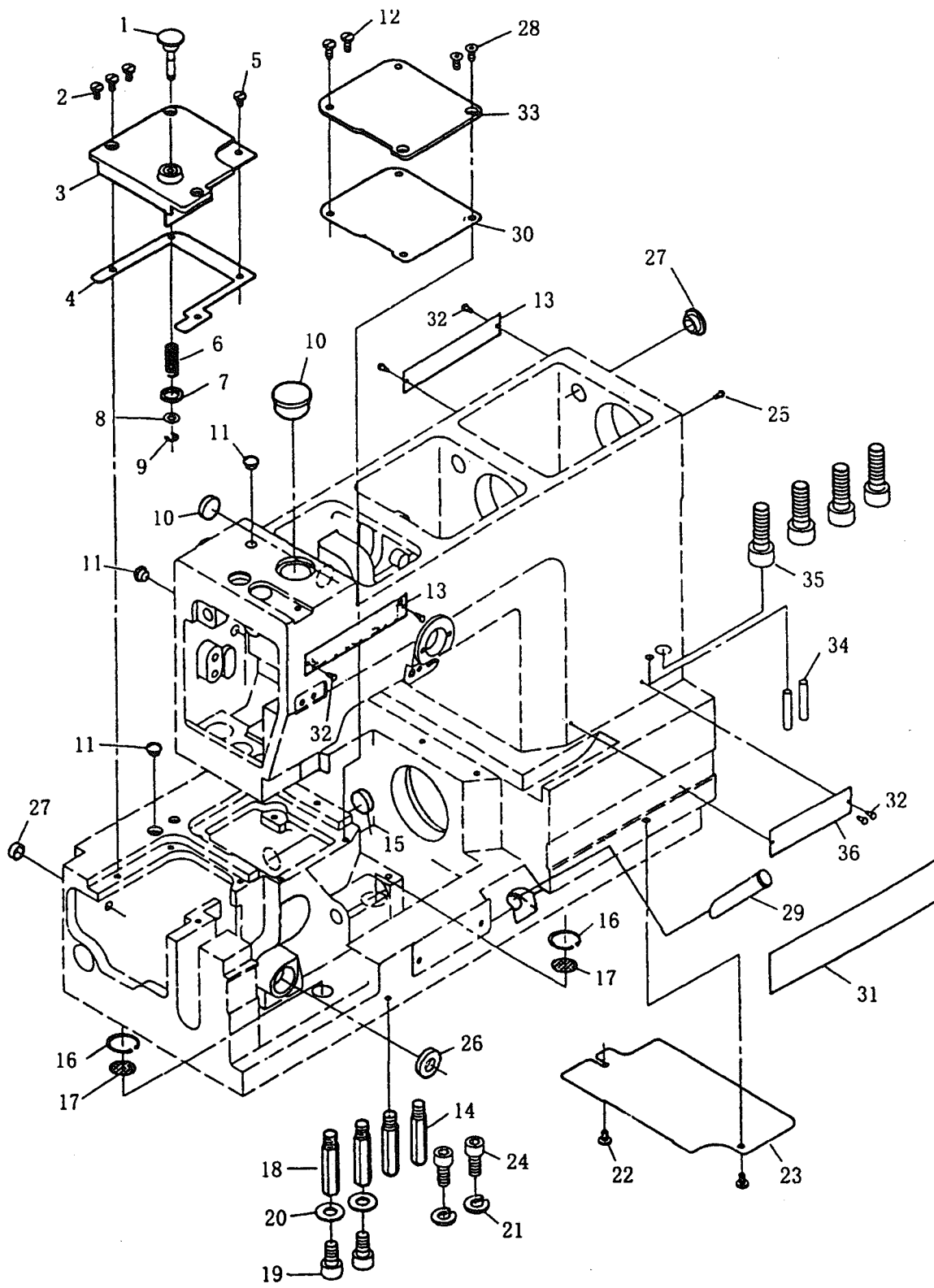
No	Ref.no	Name	Qt	Rm
1	8S01001	Top cover	1	
2	8S01008	Oit sight window	1	
3		Screw	5	GB/T67 M4×20
		Screw	4	GB/T67 M4×20
4		O-ring	1	GB/T3452.1 15×1.8
5	8S01004	Face plate	1	
6		Screw	2	GB/T65 M4×6
		Screw	2	GB/T65 M4×6
7	8S01002	Shoulder screw	1	
8	8S01001-a01	Needle bar take-up cover	1	
10		Curved washer	1	GB/T860 5
11	8S01015	Needle thread guide	1	
12	8S01012	o-ring	1	
13	8S01013	o-ring	1	
14	8S01016	Arm	1	
15	8S01010	Pulley cover	1	
16		Screw	3	GB/T65 M4×60
18		Screw	1	GB/T65 M4×10
19		Screw	1	
21	8S01007	Looper thread guide	1	
22		Pin	2	GB/T119.1 A2×6
23		Washer	2	GB/T848 4
24	8S01009-b01	Silicone oil thread	1	
26		Screw	2	GB/T65 M4×10
		Screw	2	GB/T65 M4×10
27	8S01009-b03	Upper silicone oil reservoir	1	
28		Screw	2	GB/T65 M3×5
29		Screw	2	GB/T65 M3×5
30		Upper silicone oil cover	1	
31		Silicone take-up bracket	1	
32	8S01009-b04	Thread guide	3	
33	8S01014	Take-up cover screw	2	
34	8S01006	Take-up cover	1	
35	8S01001-a04	li Shelter cover	1	
36	8S01005	Upper silicone	1	
37	8S01001-a03	Safety plate holder	1	
38	8S01001-a02	Safety plate support	1	
39		Screw	3	GB/T80 M3×4
40	8S01017	Bed	1	
41	8S01019	Seal plug	1	φ8.8
42	8S01003	Face name plate	1	
43	8S01018	Model plate	1	
44		Pin	1	
45		O-ring	1	GB/T3542.1 16×2.65



B. COVER B

No	Ref.no	Name	Qt	Rm
1	8S202014	Slide plate	1	
2	8S02002	Screw	1	M4
3	8S02001	Plate spring	1	
4		Screw	2	GB/T67 M2. 5×3
5	8S02006	Right bed cover	1	
6		Screw	4	GB/T67 M4×12
		Screw	2	GB/T67 M4×12
		Screw	2	GB/T67 M4×12
7		Curved washer	4	GB/T860 5
8	8S02016	Hinge	1	
9		Nut	1	GB/T6172. 1 M4
10		Screw	2	GB/T67 M4×12
11		Washer	1	GB/T95 4
12		Curved washer	2	GB/T860 6
13		Nut	1	GB/T6170 M4
14	8S02012	Left bed cover	1	
15		Screw	1	M4
16		Washer	1	GB/T95 4
17	8S02011	Countersunk screw	1	M4
18	8S02008	Screw	1	M5
19		Screw	2	GB/T67 M4×20
20		Screw	4	GB/T77 M4×4
21	8S02013	Hinge	1	
22	8S02007	Screw	1	M5
23	8S02009	Side cover	1	
24	8S02017	Screw	1	M4
25		Nut	1	GB/T6172. 1 M4
26	8S02018	Spring	1	
27	8S02005	Cushion	4	φ 5. 7
28	8S02004	Bracket	1	
29	8S02019	Shoulder screw	1	M4
30		Screw	2	GB/T67 M4×5
		Screw	1	GB/T67 M4×5
31		Screw	2	GB/T67 M4×8
32	8S02003	Front cover spring	1	
33	8S02010	Front cover	1	
34		Washer	1	GB/T95 5

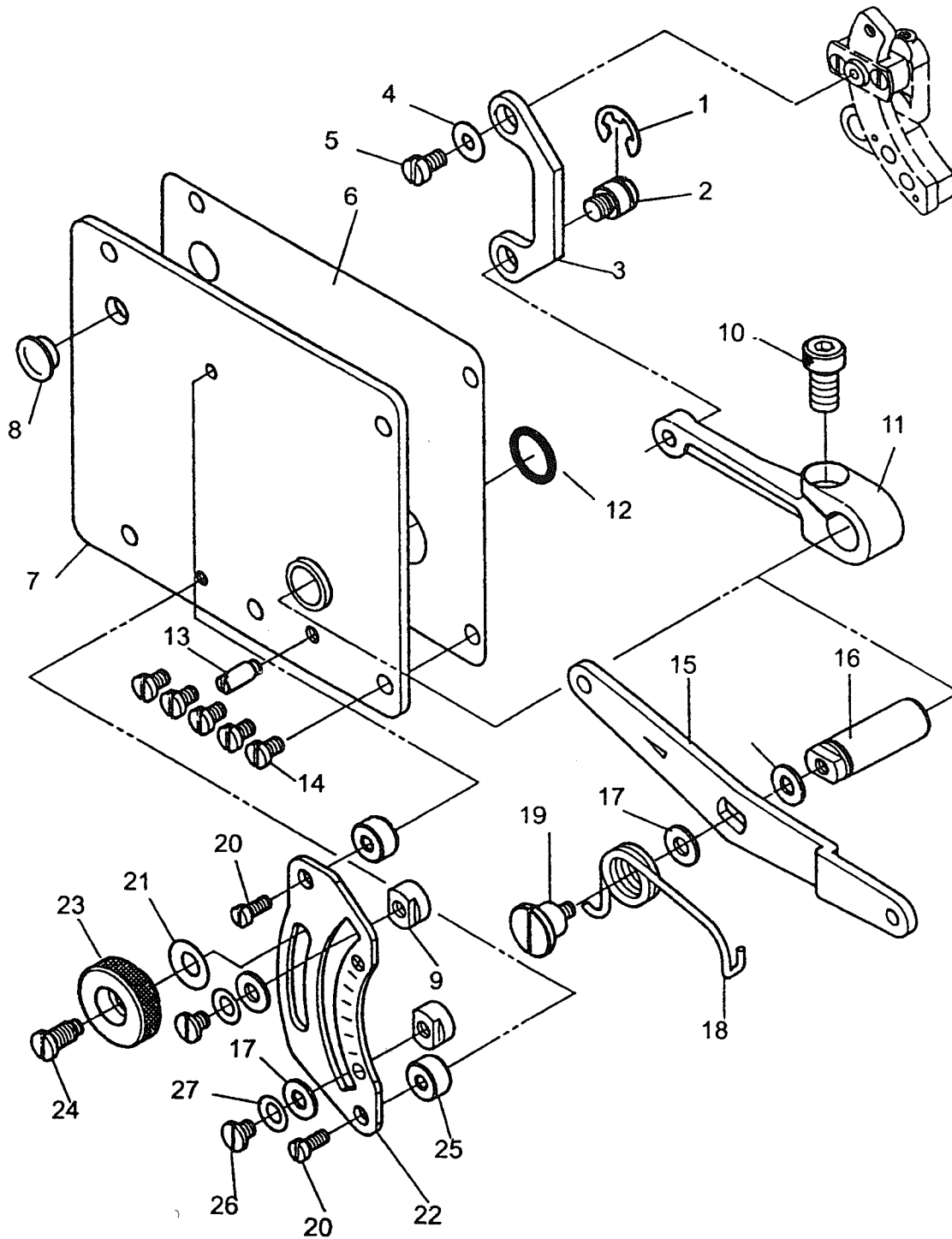
C. COVER C



C. COVER C

No	Ref.no	Name	Qt	Rm
1	8S03008-a03	Feed regulating pushbutton	1	
2		Screw	3	GB/T67 M4×10
3	8S03008-a01	Bed top cover	1	
4	8S03013	Bed top cover gasket	1	
5		Screw	1	GB/T67 M4×8
6	8S03008-a02	Feed regulating pushbutton spring	1	
7		o-ring	1	GB/T3452.1 5×1.8
8		Washer	1	GB/T95 5
9		Ering	2	GB/T896 3.5
10	8S03009	Seal plug	2	φ19
11	8S04001	Seal plug	3	φ7.5
12		Screw	2	GB/T65 M4×12
13	8S03007	Arm plate	2	
14	8S03015	Screw	2	M8
15	8S03002	Seal plug	2	φ15
16		Ring fer hole	2	GB/T895.1 16
17	8S03012	Oil fiter	2	
18	8S03004	Screw	2	M8
19		Screw	2	GB/T70.1 M6×20
20		Washer	2	M5
21		Light spring washer	2	GB/T859 8
22		Screw	2	GB/T65 M4×6
23	8S03003	Dustproof plate	1	
24		Screw	2	GB/T70.1 M8×20
25		Rivet	1	GB/T827 2×8
26	(8S09008-b00)	0~2 seal	1	
27	8S03001	Seal plug	2	φ11.8
28		Serew plate	2	GB/T68 M4×12
29	8S03005	Oil sight gauge	1	
30	8S03014	Gasket	1	
31	8S03006	Series plafe	1	
32		Rivet	4	GB/T827 2×4
33	8S03011	Looper cover	1	
34		Spring pin	2	GB/T879.1 5×30
35		Screw	4	GB/T70.1 M10×30
36	(8S01016)	Model	1	

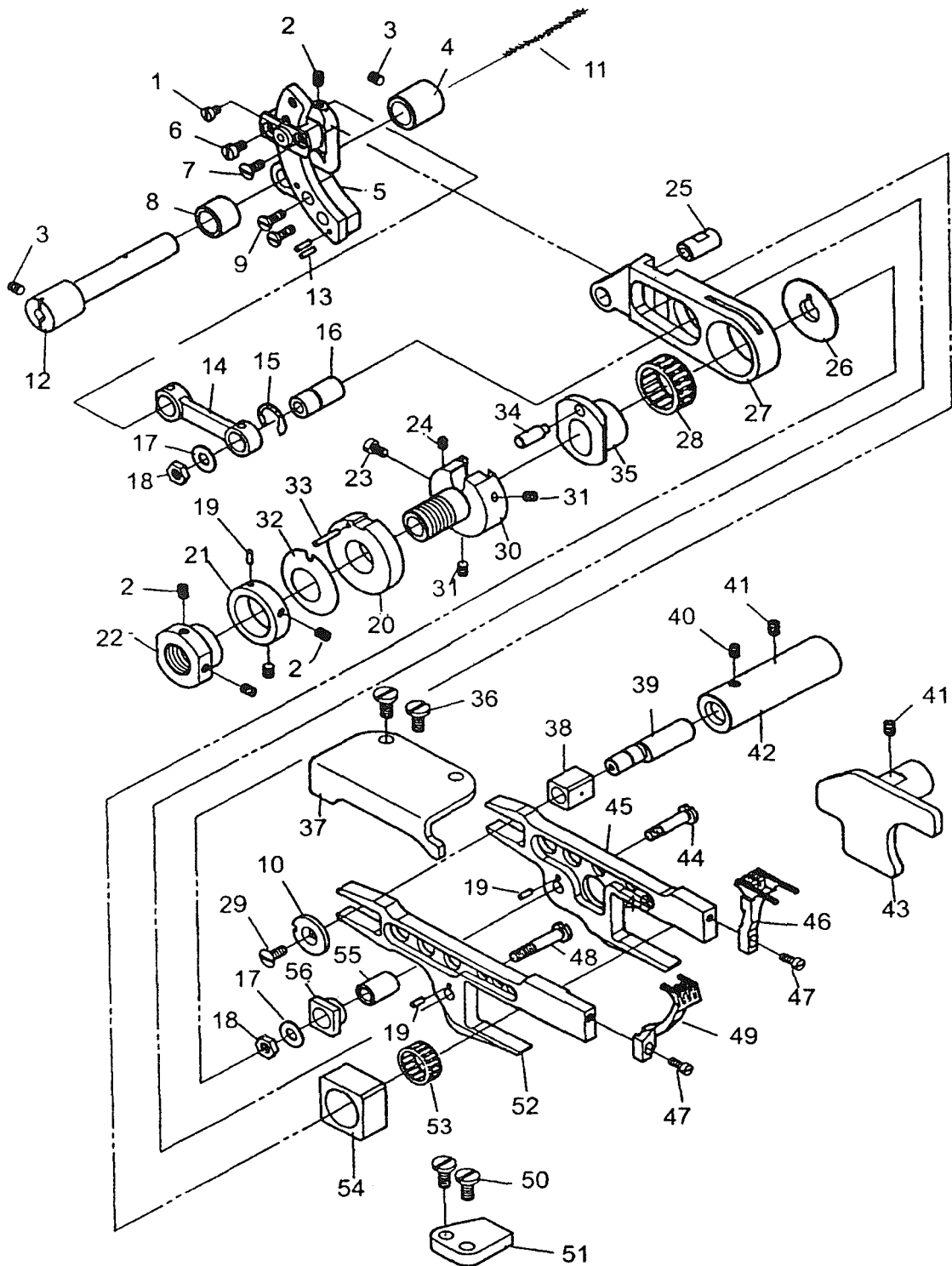
D. DIFFERENTIAL CONTROL MECHANISM



D. DIFFERENTIAL CONTROL MECHANISM

No	Ref.no	Name	Qt	Rm
1		"E" ring	1	GB/T896 6
2	8S04019	Slider link pin	1	
3	8S04018	Slider link	1	
4		Washer	1	GB/T97.1 4
5	8S04020	Screw	1	M3.5×6
6	8S04017	Gasket	1	
7	8S04002-a00	Cover assembly (assy)	1	
8	8S04001	Plug	1	φ 7.5
9	8S04008	Nut	2	SM11/64"×40
10		Screw	1	GB/T70.1 M6×16
11	8S04016	Differential crank	1	
12		o-ring	1	GB/T3452.1 10×1.8
13	8S04022	Screw	1	M4
14		Screw	5	GB/T65 M4×10
15	8S04005	Differential lever	1	
16	8S04015	Differential lever shaft	1	
17	8S04009	Washer	3	
18	8S04006	Differential lever spring	1	
19	8S04021	Screw	1	M4
20	8S04003	Screw	2	M3.5
21	8S04010	Spring washer	1	
22	8S04004	Differential feed graduation	1	
23	8S04012-b00	Adjusting nut (assy)	1	SM7/32"×32
24	8S04013	Screw	1	SM7/32"×32
25	8S04007	Spacer	2	
26	8S04011	Screw	2	
27	8S04010	Spring washer	2	

E. FEED DRIVING MECHANISM



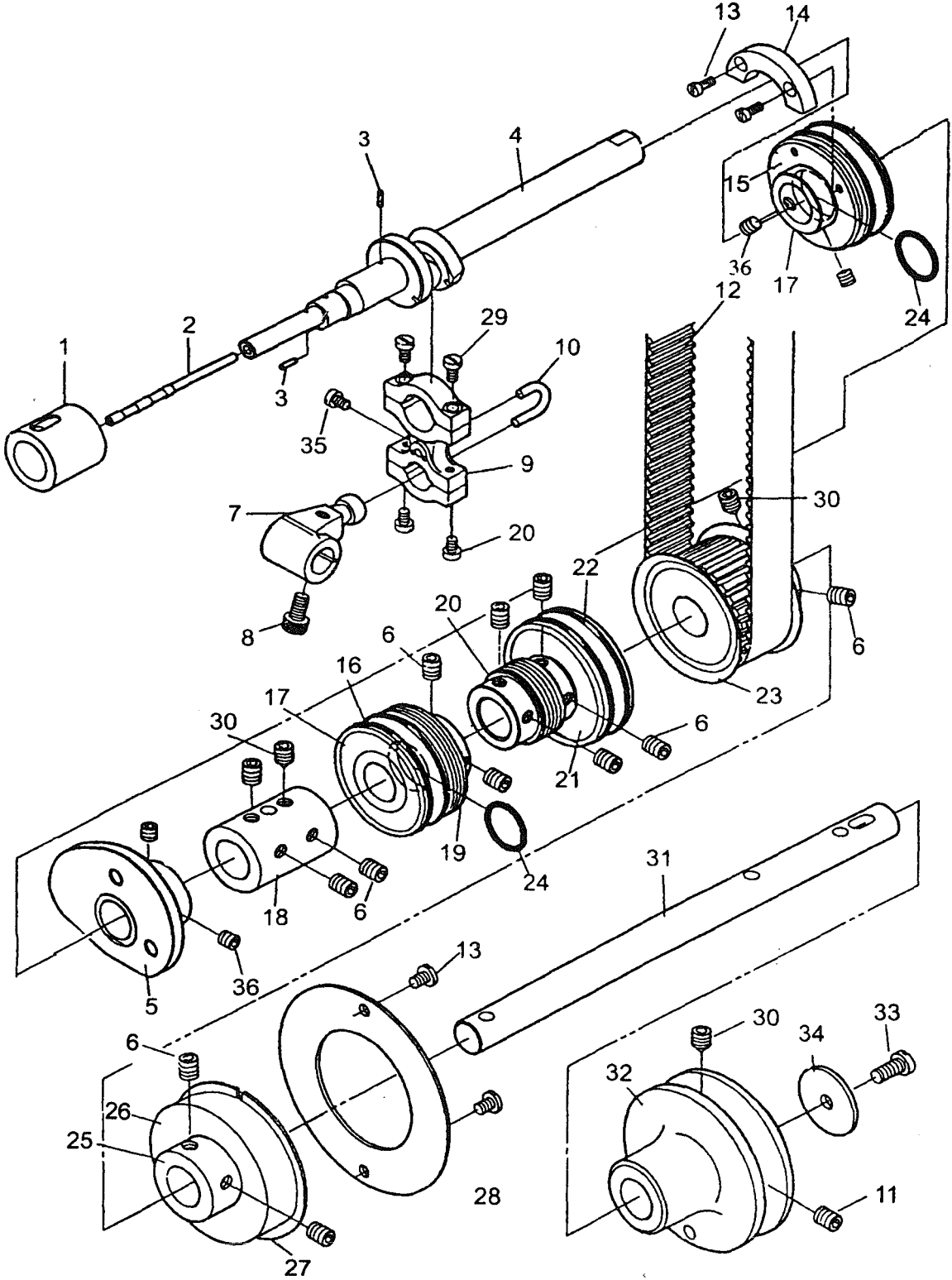
E. FEED DRIVING MECHANISM

No	Ref.no	Name	Qt	Rm
1		Screw	1	GB/T67 M3×4
2	8S05006-b02	Screw	2	GB/T70.1 M4×3
		Screw	1	GB/T70.1 M4×3
		Screw	2	GB/T70.1 M4×3
3		Screw	2	GB/T70.1 M4×3
4	8S05005	Bushing	1	
5	8S05003-a00	Chank/differential feed (assy)	1	
6	8S05003-a07	Screw	1	M3.5
7	8S05003-a06	Countersunk screw	1	M3.5
8	8S05002	Spacer	1	
9	8S05003-a08	Screw	2	M5
10	8S05014	Eccentric pin holder	1	
11		Oil wick	1	φ2×25
12	8S05001	Differential lever shaft	1	
13		Pin	2	GB/T119.1 B2×8
14	8S05025	Differential feed link	1	
15	8S05026	Ering	1	
16	8S05027	Stider link pin	1	
17		Washer	2	GB/T97.1 4
18	8S05024	Nut	2	SM11/64"×40
19	8S05006-c01	Pin	3	φ2×5
20	8S05006-d02	Feed regulating eccentric	1	
21	8S05006-c02	Eccentric collar	1	SM7/32"×32
22	8S05006-b01	Nut	1	SM7/32"×32
23	8S05008	Screw	1	M3.5
24	8S05007	Screw	1	GB/T70.1 M3×3
25	8S05004	Pin	1	
26	8S05011	Washer	1	
27	8S05010	Link/main feed	1	
28		Nddele bearing	1	KT17×21×10
29	8S05013	Screw	1	SM1/8"×44
30	8S05006-b04	Regulator	1	
31		Screw	2	SM11/64"×40×6
32	8S05006-b03	Spring washer	1	
33		Pin	1	GB/T119.1 B2×16
34	8S05006-e01	Feed dog eccentric pin	1	
35	8S05006-e02	Feed dog eccentric	1	
36	8S05033	Screw	2	M4
37	8S05032	Feed bar guide (upper)	1	
38	8S05015	Feed bar block (rear)	1	
39	8S05016	Eccentric pin	1	
40	(8S07011)	screw	1	SM11/64"×40
41		Screw	2	GB/T80 M5×6
42	8S05017	Bushing	1	

E. FEED DRIVING MECHANISM

No	Ref.no	Name	Qt	Rm
43	8S05023	Feed bar guide (right)	1	
44	8S05031	Screw	1	SM11/64"×40
45	8S05022-g00	Main feed bar	1	
46	8S05021	Main feed dog	1	
47		Screw	2	SM11/64"×40
48	8S05028	Screw	1	SM11/64"×40
49	8S05020	Differential feed dog	1	
50		Screw	1	GB/T65 M4×10
51	8S05034	Feed bar guide 0eft)	1	
52	8S05018-f00	Differential feed bar	1	
53		Needle bearing	1	KT12×15×10
54	8S05012	Feed Bar Block (Front)	1	
55	8S05030	Bushing	1	
56	8S05029	Guide block	1	

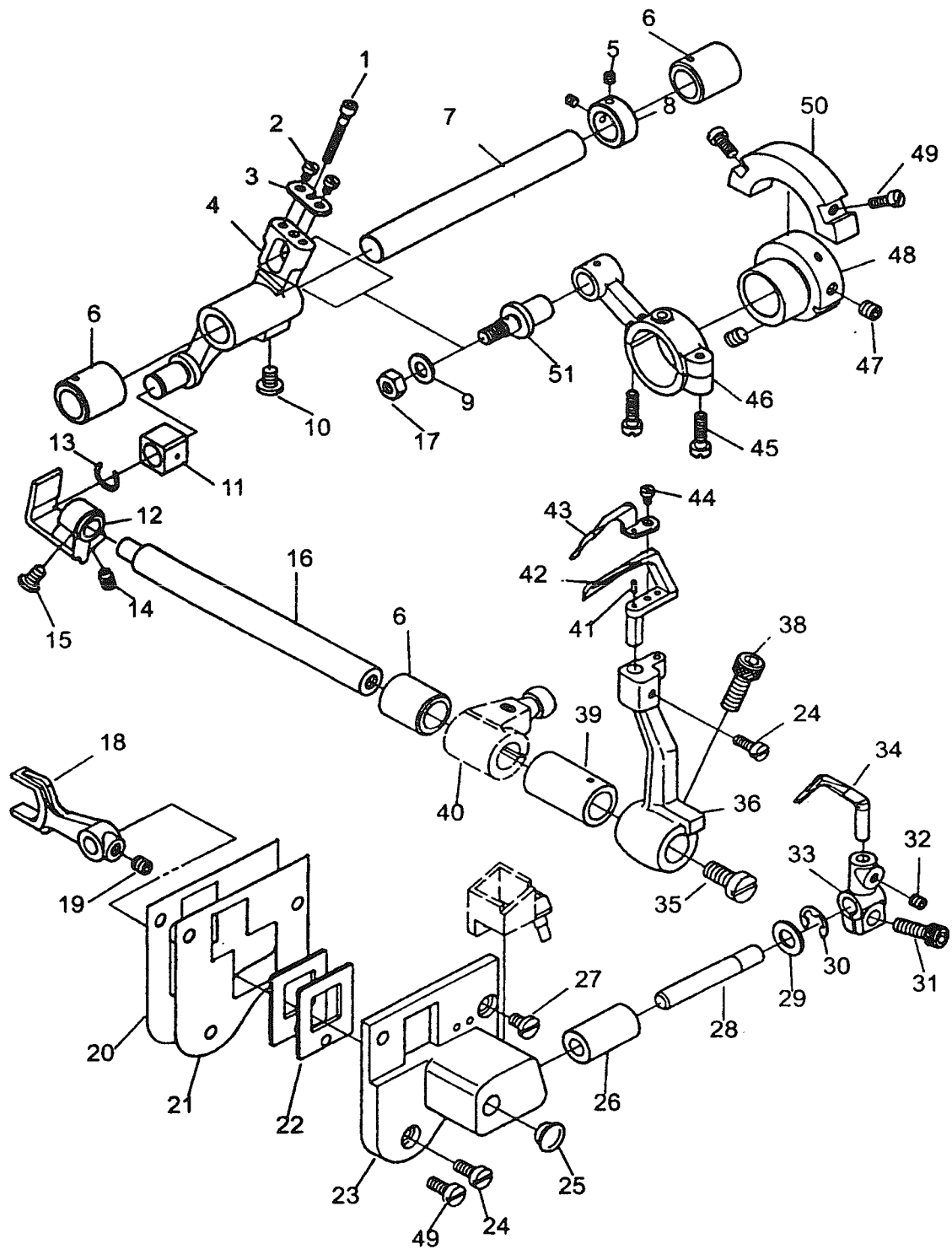
F. MAIN SHAFT DRIVE MECHANISM



F. MAIN SHAFT DRIVE MECHANISM

No	Ref.no	Name	Qt	Rm
1	8S06005	Shaft	1	
2	8S06003	Adjusting bar	1	
3		Pin	1	GB/T119.1 A1.5×6
4	8S06004-a00	Crankshaft	1	
5	8S06004-d00	Looper thread takrup	2	
6		Screw	12	GB/T77 M6×5
7	8S06001	Looper Ball crank	1	
8	8S06002	Screw	1	M6×0.75×15
9	8S06006-b00	Looper connection red	1	
10	8S06006-b00	UGuide fork	1	
11		Screw	1	GB/T77 M6×8
12	(8S08008)	Timing belt	1	230XL075
13		Screw	4	GB/T65 M4×10
14	8S06008	Balance weight (lower)	1	
15	8S06010-c00	Bushing	1	
16		O-ring	4	GB/T3452.1 31.5×1.8
17		Ball bearing	2	6004ZZ 20×42×12
18	8S06018	Joint	1	
19	8S06010-e00	Bushing	1	
20	8S06011-f00	Worm asm	1	
21		Ball bearing	1	6004ZZ 20×47×14
22		O-ring	2	GB/T3452.1 36.5×1.8
23	8S06012-g00	Sprocket wheel asm	1	
24		O-ring	2	GB/T3452.1 15×2.65
25	8S06014-h00	Bushing	1	
26		Ball bearing	1	6004ZZ 20×52×15
27		Thrust collar	1	
28	8S06015	Set plate	1	
29		Screw	4	GB/T70.1 M4×14
30		Screw	3	GB/T78 M6×8
31	8S06013	Lower shaft (Right)	1	
32	8S06016	Machine pulley	1	
33		Screw	1	GB/T78 M6×8
34	8S06017	Big washer	1	
35		Screw	1	GB/T67 M3×6
36		Screw	1	GB/T77 M5×5

G. LOOPER DRIVING MECHANISM



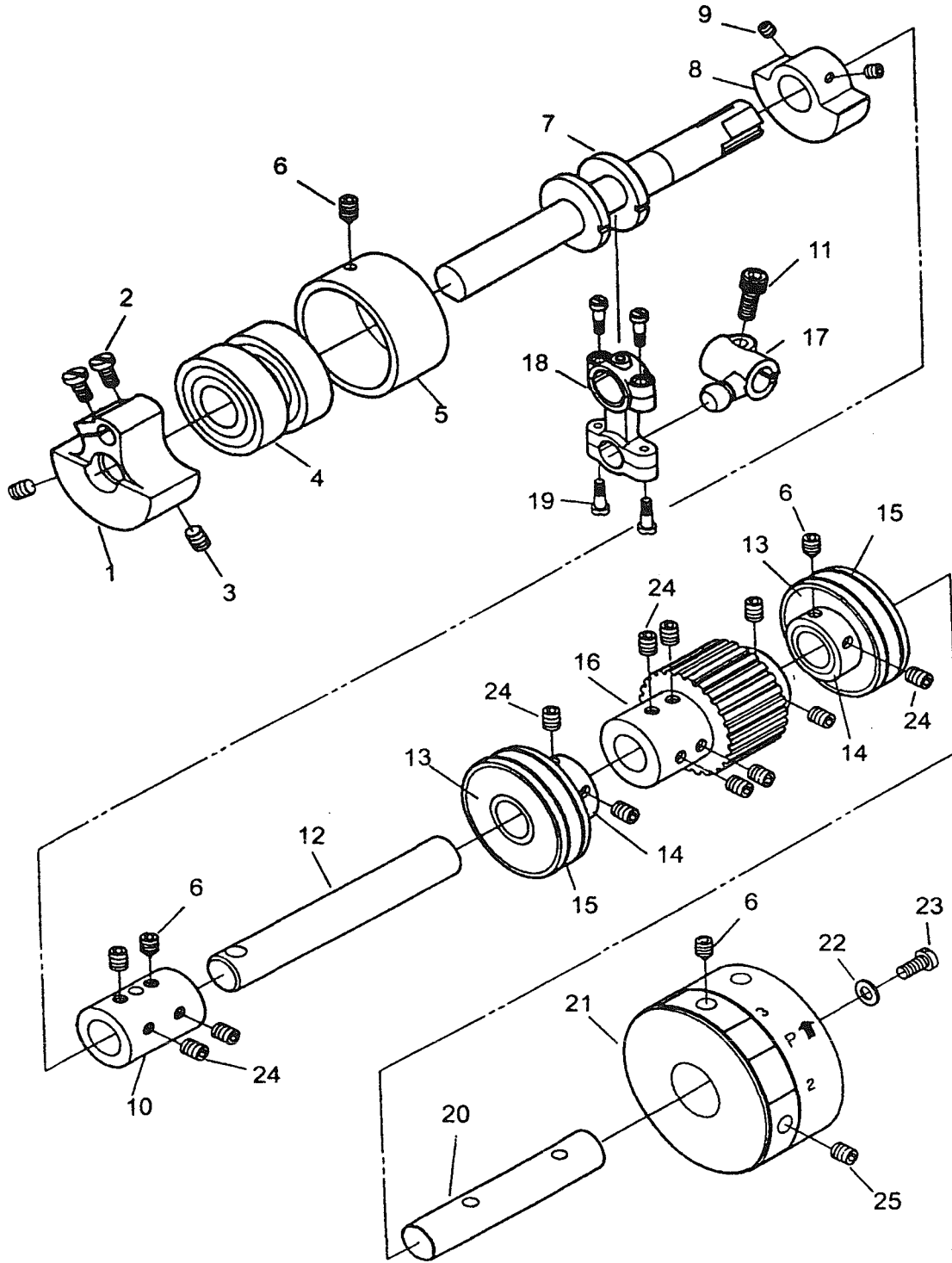
G. LOOPER DRIVING MECHANISM

No	Ref.no	Name	Qt	Rm
1	8S07015	Screw	1	M2.5
2		Screw	2	GB/T67 M2.5×6
3	8S07019	Guide plate	1	
4	8S07013	Looper rocket lever	1	
5	8S07005	Screw	2	SM1/8"×44
6	8S07027	Looper shaft bushing	3	
7	8S07026	Looper rocker shaft	1	
8	8S07008	Collar	1	
9		Washer	1	GB/T95 5
10		Screw	1	GB/T70.1 M5×8
11	8S07012	Looper slide block	1	
12	8S07010	Looper driving lover	1	
13		Retaining ring	1	GB/T896 6
14	8S07011	Screw	1	SM11/64"×40×6
15	8S07028	Screw	1	SM11/64"×40
16	8S07023	Looper shaft	1	
17		Nut	1	GB/T6170 M5
18	8S07029	Forked bar	1	
19		Screw	1	GB/T77 M5×4
20	8S07017	Rubber plafe gasket	1	
21	8S07018	Plate gasket	1	
22	8S07019	Rubber gasket	2	
23	8S07001	Finger guarder	1	
24		Screw	2	GB/T65 M4×8
25	8S07031	Rubber plug	1	φ7
26	8S07002	Bushing	1	
27		Short Screw	1	GB/T65 M4×5
28	8S07030	Shaft	1	
29		Washer	1	GB/T848 6
30		Retaining ring	1	GB/T896 4
31		Screw	2	GB/T70.1 M5×8
32		Screw	1	GB/T77 M4×4
33	8S07020	Crank lever	1	
34	8S07003	Needle guard	1	
35	8S07015	Screw	1	M6
36	8S07021	Looper holder	1	
37		Pin	1	GB/T119.1 D2×6
38		Screw	1	GB/T70.1 M5×14
39	8S07024	Looper shoft front bushing	1	
40	(8S06001)	Looper ball crank	1	
41		Pin	1	GB/T119.1 A1.5×6
42	8S07009	Looper	1	
43	8S07004	Thread contro ller disc	1	
44		Screw	1	GB/T67 M2.5×4

G. LOOPER DRIVING MECHANISM

No	Ref.no	Name	Qt	Rm
45	8S07025-a01	Screw	2	SM11/64"×40×15
46	8S07025-a00	Connection rod (assy)	1	
47		Screw	2	GB/T80 M5×5
48	8S07007	Looper cam	1	
49		Long screw	3	GB/T65 M4×10
50	8S07016	Balance weight	1	
51	8S07006	Connecting red pin	1	

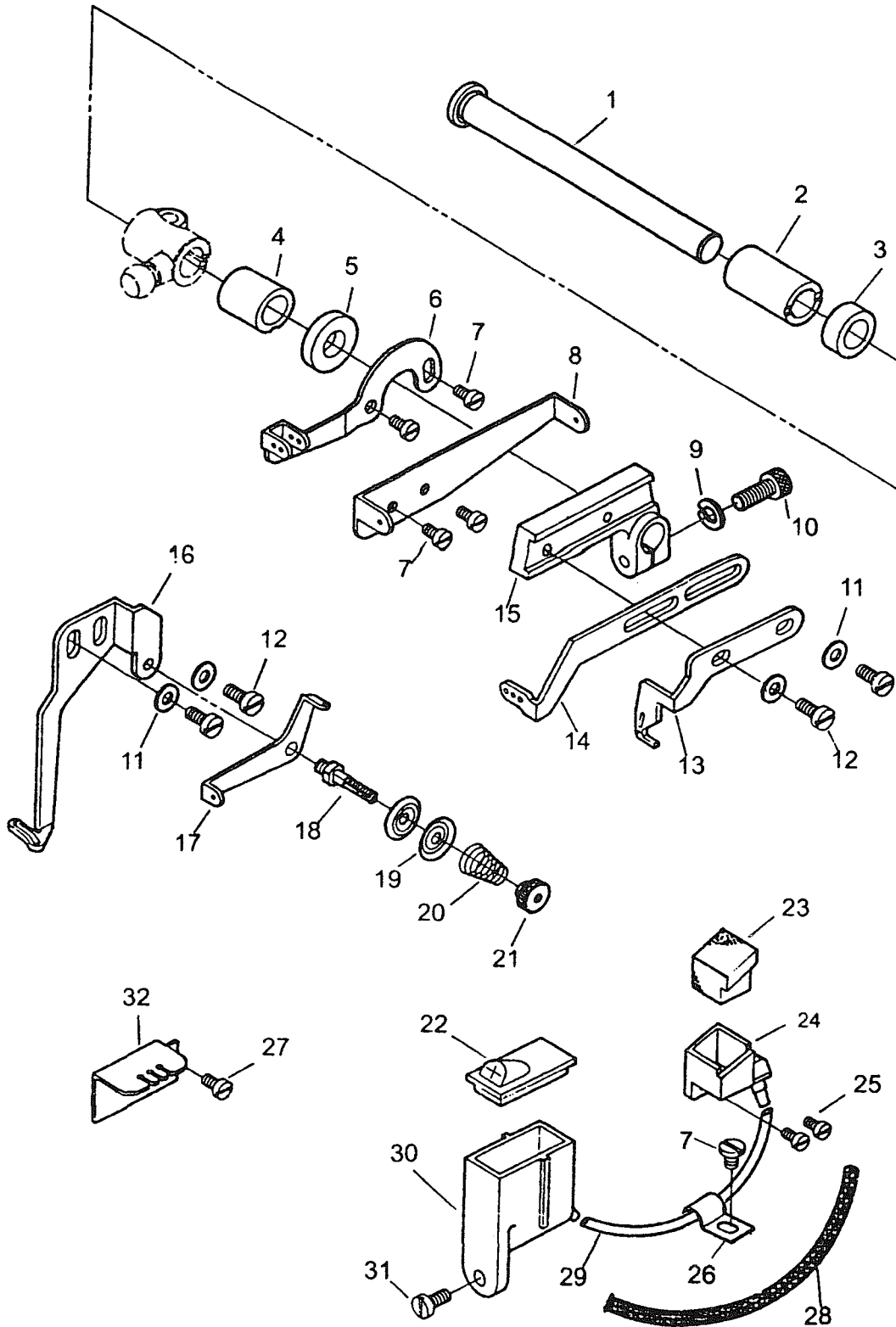
H. UPPER SHAFT MECHANISM



H. UPPER SHAFT MECHANISM

No	Ref.no	Name	Qt	Rm
1	8S08001-a00	Mction assembly (assy)	1	
2		Screw	2	GB/T67 M5×12
3	8S08001-a03	Screw	2	M6×0.75×12
4		Ball bearing	2	6004ZZ 20×42×12
5	8S08001-a02	Upper shoft front bushing	1	
6		Screw	4	GB/T78 M6×8
7	8S08002	Upper shoft (front)	1	
8	8S08004	Balance weight (upper)	1	
9		Screw	2	GB/T77 M5×5
10	(8S0608)	Joint	1	
11	8S08006	Screw	2	M6×0.75×15
12	8S08012	Upper shaft middle	1	
13		Ball bearing	2	6004ZZ 20×47×14
14	8S08007-c00	Upper bushing	2	
15		O-ring	4	GB/T3452.1 36.5×1.8
16	8S08009	Sprocket wheel (lower)	1	
17	8S08005	Take-up ball crank	1	
18	8S08003-b00	Connecting rod (assy)	1	GB/T70.1 M4×14
19		Screw	4	
20	8S08011	Upper shaft (rear)	1	
21	8S08010-d00	Hand wheel (assy)	1	
22		Washer	1	GB/T95 5
23		Screw	1	GB/T67 M5×14
24		Screw	12	GB/T77 M6×5
25		Screw	1	GB/T77 M6×8

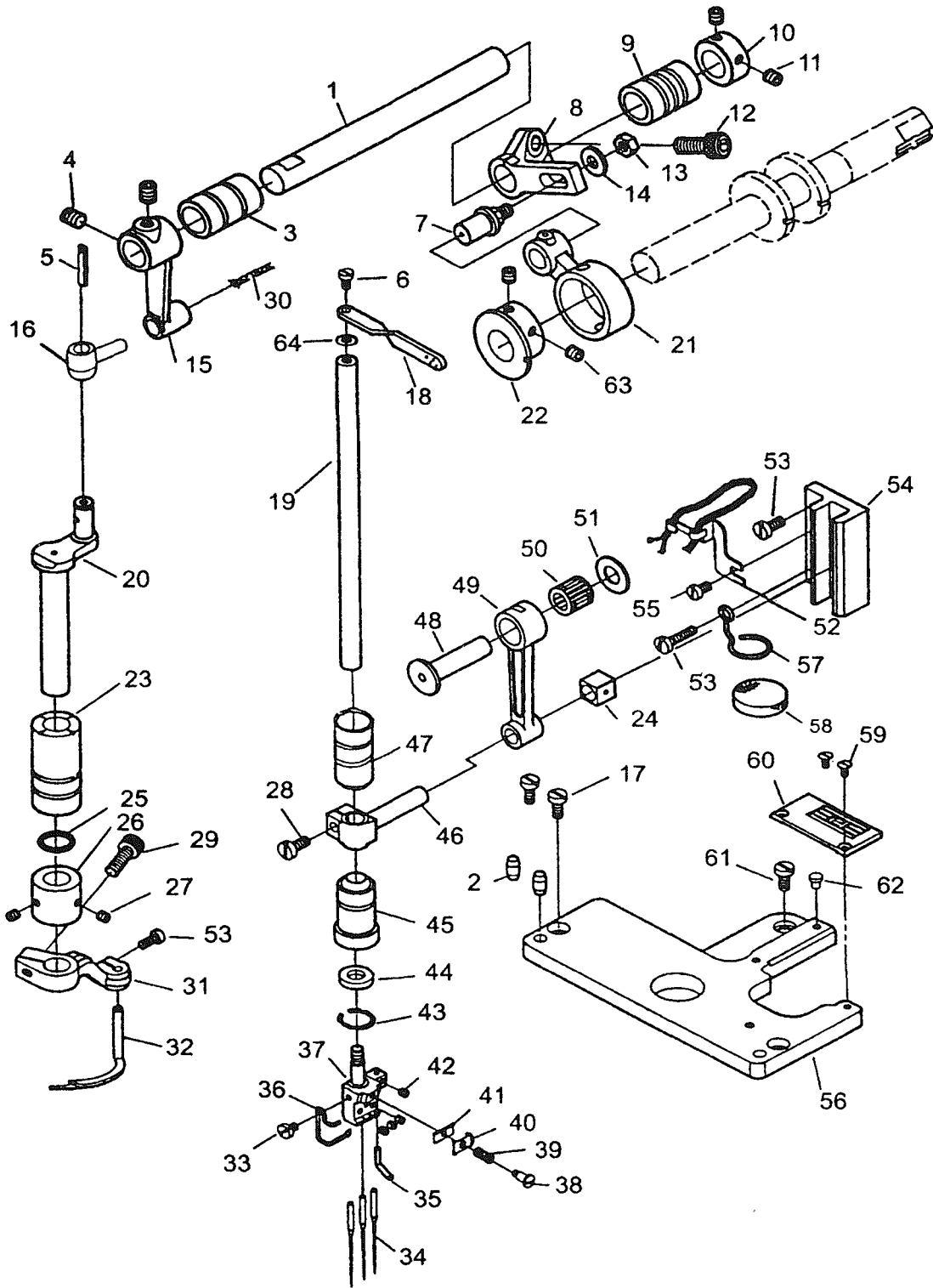
I. NEEDLE · SPREADER THREAD MECHANISM



I. NEEDLE SPREADER THREAD MECHANISM

No	Ref.no	Name	Qt	Rm
1	8S09004	Driving shaft	1	
2	8S09005	Rear bushing	1	
3	8S09006	Collar	1	
4	8S09007	Front bushing	1	
5	8S09008-b00	Oil seal set	2	
6	8S09002	Thread guide	1	
7		Screw	5	GB/T65 M4×6
8	8S09003	Thread guide	1	
9		Washer	1	GB/T93 5
10		Screw	1	GB/T70.1 M5×16
11		Washer	4	GB/T97.1 4
12		Screw	4	GB/T65 M4×10
13	8S09001-a02	Thread take-up	1	
14	8S09001-a01	Thread take-up	1	
15	8S09001-a03	Bracket	1	
16	8S09010-c06	Top cover thread guide	1	
17	8S09010-c01	Supplementary thread guide	1	
18	8S09010-c03	Tension post	1	
19	8S09010-c02	Tension disc	2	
20	8S09010-c05	Tension spring	1	
21	8S09010-c04	Nut	1	SM9/64"×40
22	8S09012	Cap	1	
23	8S09015-d01	Felt	1	
24	8S09015-d02	Needle cooler	1	
25		Screw	2	GB/T67 M3×6
26	8S09013	Holder	1	
27		Screw	1	GB/T65 M4×6
28	8S09015-d03	Oil wick	1	
29	8S09014	Oil tube	1	φ6×130
30	8S09011	Silicone oil reservoir (lower)	1	
31		Screw	1	GB/T65 M4×10
32	8S09009	Thread guide	1	

J. NEEDLE BAR MECHANISM



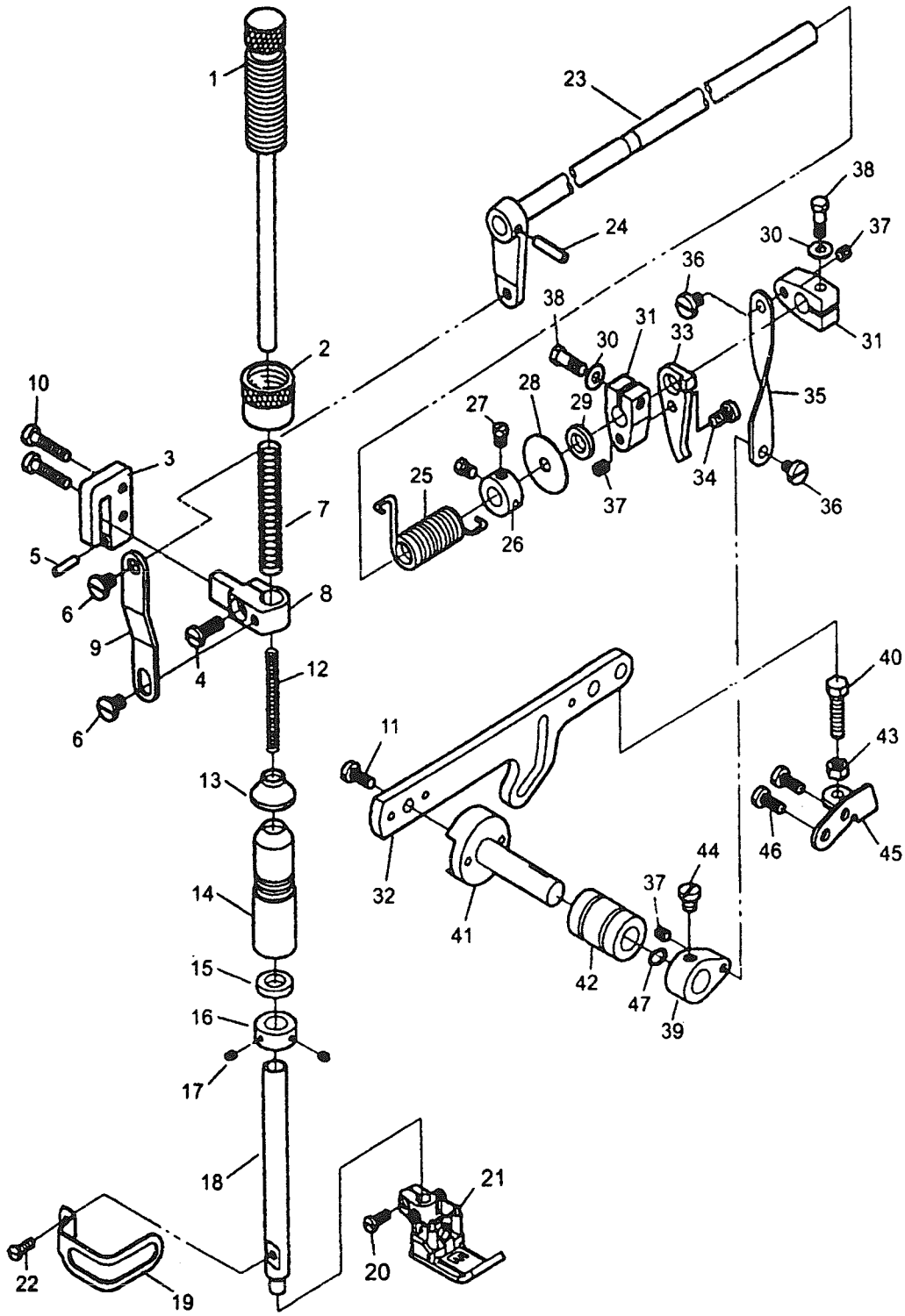
J. NEEDLE BAR MECHANISM

No	Ref.no	Name	Qt	Rm
1	8S10011	Driving shaft	1	
2		Pin	2	GB/T119.1 D5×14
3	8S10003	Driving shaft bushing (left)	1	
4		Screw	2	GB/T80 M6×6
5		Oil wick	1	φ3×15
6		Screw	1	GB/T67 M3×6
7	8S10006	Screw	1	
8	8S10007	Adjusting lever	1	
9	8S10009	Driving shaft bushing (right)	1	
10	8S10010	Collar	1	
11		Screw	1	GB/T77 M5×4
12	8S10008	Screw	2	M6×0.75×15
13		Nut	1	GB/T6170 M5
14		Washer	1	GB/T95 5
15	8S10002	Rocking arm	1	
16	8S10023	Rocking pin	1	
17		Screw	2	
18	8S10014	Thread guide	2	
19	8S10038	Needle bar	1	
20	8S10012	Crankshaft	1	
21	8S10005	Connecting rod	1	
22	8S10004	Eccentric cam	1	
23	8S10027	Spreader bushing	1	
24	8S10024	Oil seal	1	
25		O-ring	1	GB/T3452.1 10.6×1.8
26	8S10022	Screw	1	
27		Screw	2	GB/T80 M4×4
28		Screw	1	SM11/64"×40×10.5
29		Oil wick	1	GB/T70 M5×12
30		Spieader holder	1	φ3×15
31	8S10039	Spieader	1	
32	8S10028	Screw	1	
33		Needle	1	SM1/8"×44×4
34		Thread guide	3	UY128GAS-11
35	8S10029	Needle clamp eyelet	1	
36	8S10036	Needle clamp	1	
37	8S10034	Screw	1	4.8,5.6,6.4
38	8S10019		1	
39	8S10018	Apring	1	
40	8S10017	Latch	1	
41	8S10016	Thread guide	1	
42	8S10035	Screw	4	SM1/8"×44
43		"E"ing	1	GB/T895.1 12
44	8S10021-a00	Oil ring	1	

J. NEEDLE BAR MECHANISM

No	Ref.no	Name	Qt	Rm
45	8S10020	Needle bar bushing (lower)	1	
46	8S10040	Needle bar bracket	1	
47	8S10046	Needle bar bushing (upper)	1	
48	8S10044	Connecting rod pin	1	
49	8S10042	Connecting rod	1	
50	8S10043-b00	Needle bearing (assy)	1	KT8×12×12
51	8S10045	Needle bearing washer	1	
52	8S10013	Oil wick plate	1	
53		Screw	3	GB/T65 M4×12
54	8S10015	Needle bar guide	1	
55		Screw	1	GB/T65 M4×5
56	8S10031	Needle plate support	1	
57	8S10025	Catch	1	
58	8S10026	Sponge	1	
59	8S10032	Screw	2	SM9/64"×40
60	8S10033	Needle plate	1	
61		Screw	1	GB/T65 M4×8
62	8S10030	Cushion rubber	1	φ2.5×3
63		Screw	2	GB/T77 M5×5
64		Washer	1	GB/T861.2 3

K. PRESSER FOOT MECHANISM



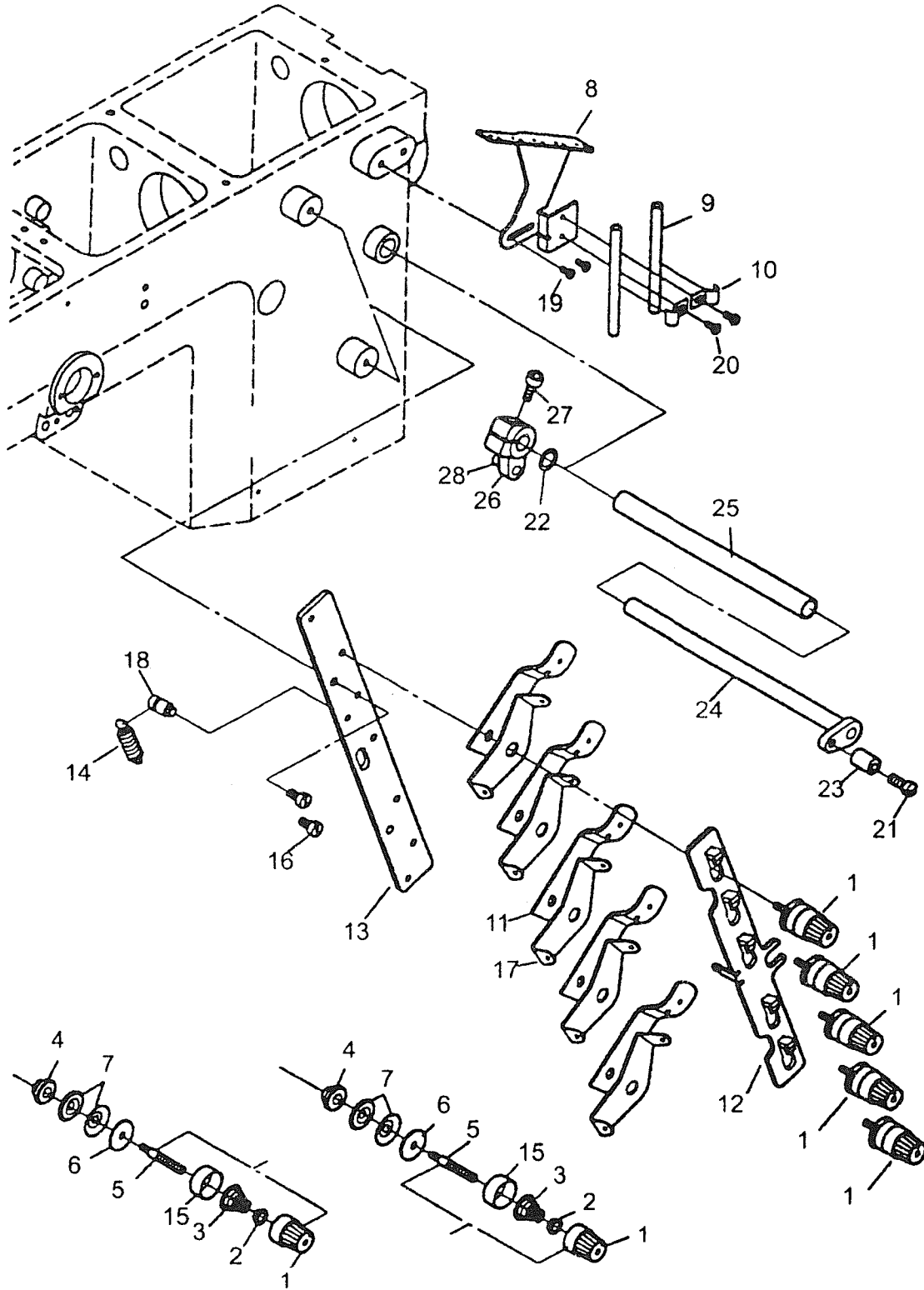
K. PRESSER FOOT MECHANISM

No	Ref.no	Name	Qt	Rm
1	8S11001	Adjusting Screw	1	M16×1
2	8S11001	Lock nut	1	M16×1
3	8S11004-a00	Presser bar guide	1	
4	8S11005	Screw	1	SM11/64"×40
5		Spring pin	1	GB/T897.1 3×12
6	8S11012	Shoulder Screw	2	SM3/16"×32
7	8S11003	Outer spring	1	
8	8S11006	Presser bar clamp	1	
9	8S11011	Lifter link	1	
10		Screw	2	GB/T65 M4×20
11		Screw	1	GB/T70 M5×8
12	8S11010	Inner spring	1	
13	8S11008	Oil protector ring	1	
14	8S11009	Presser bar bushing	1	
15	8S11013-b00	Oil seal	1	
16	8S11014	Collar	1	
17	8S11015	Screw	2	SM1/8"×44
18	8S11007	Presser bar	1	
19	8S11016	Finger guard	1	
20	8S11017-c01	Screw	1	SM9/64"×40×8
21	8S11017-c00	Presser foot complete (assy)	1	
22		Screw	1	GB/T65 M3×6
23	8S11018-d00	Lifter shaft	1	
24		Pin	1	GB/T897.1 4×16
25	8S11019	Spring	1	
26	8S11020	Collar	1	
27	8S11021	Screw	2	SM9/64"×40×6
28	8S11022	Rubber washer	2	
29	8S11023	Caller	1	
30		Washer	2	GB/T97.1 4
31	8S11029	Lifter lever	2	
32	8S11024	Lever	1	
33	8S11033-e00	Interrupt lump	1	
34	8S11033-e02	Screw	1	SM11/64"×40×8
35	8S11028	Correcting plate	1	
36	8S11027	Shoulder Screw	2	SM11/64"×40
37	8S11026	Screw	3	SM11/64"×40×5
38	8S11030	Screw	2	SM11/64"×40×12.5
39	8S11031	Lifter lever	1	
40		Screw	1	GB/T5781 M5×20
41	8S11032	Lever seat	1	
42	8S11025	Lever seat bushing	1	
43		Nut	1	GB/T6170 M5
44		Screw	1	GB/T70.1 M4×10

K. PRESSER FOOT MECHANISM

No	Ref.no	Name	Qt	Rm
45	8S11034-f00	Lever stop	1	
46		Screw	2	GB/T65 M4×10
47		Washer	1	GB/T848 10

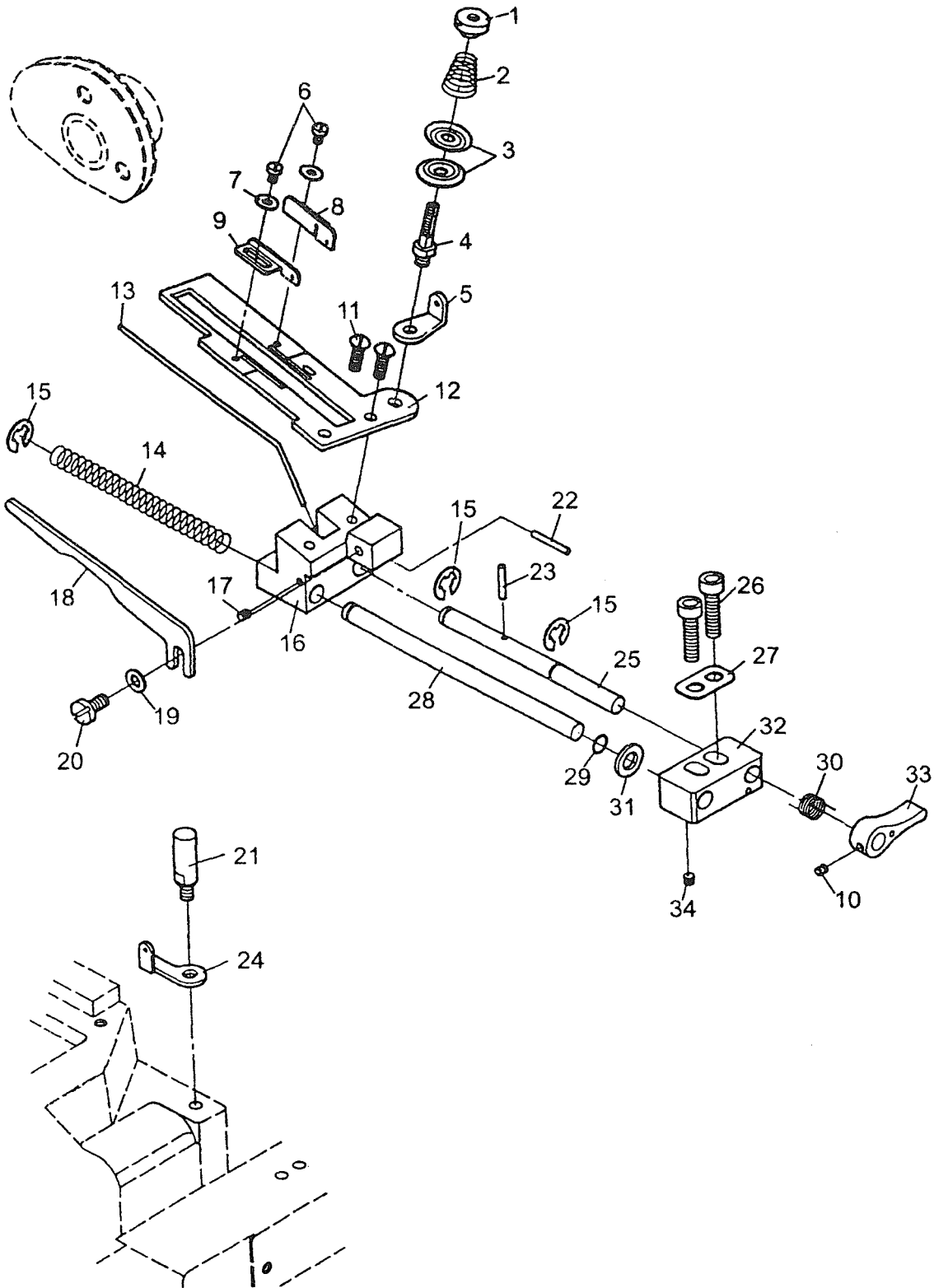
L. HREAD TENSION MECHANISM



L. THREAD TENSION MECHANISM

No	Ref.no	Name	Qt	Rm
1	8S12001-a00	Post nut (assy)	5	
2	8S12002	Spring bushing	5	
3	8S12003	Tension spring	5	Φ1×3、Φ0.6×2
4	8S12008	Tension post collar	5	
5	8S12005	Screw stud	5	
6	8S12006	Felt	5	
7	8S12007	Tension disc	10	
8	8S12019	Thread guide plate	1	
9	8S12020	Thread eyelet pipe	2	
10	8S12021	Latch	2	
11	8S12011	Thread guide	5	
12	8S12009	Tension disc separator	1	
13	8S12012	Tension post support	1	
14	8S12014	Repositioning spring	1	
15	8S12004	Cup	5	
16		Screw	2	GB/T65 M4×8
17	8S12010	Tension disc eyelet	5	
18	8S12013	Pin	1	
19		Screw	2	GB/T65 M4×8
20		Screw	2	GB/T65 M4×5
21		Screw	1	GB/T65 M4×21
22		Washer	1	GB/T97.1 8
23	8S12016	Collar	1	
24	8S12015	Lever	1	
25	8S12017	Splashier oil pipe	1	
26	8S12018	Crank	1	
27		Screw	1	GB/T70.1 M5×16
28		Pin	1	GB/T119.1 D5×18

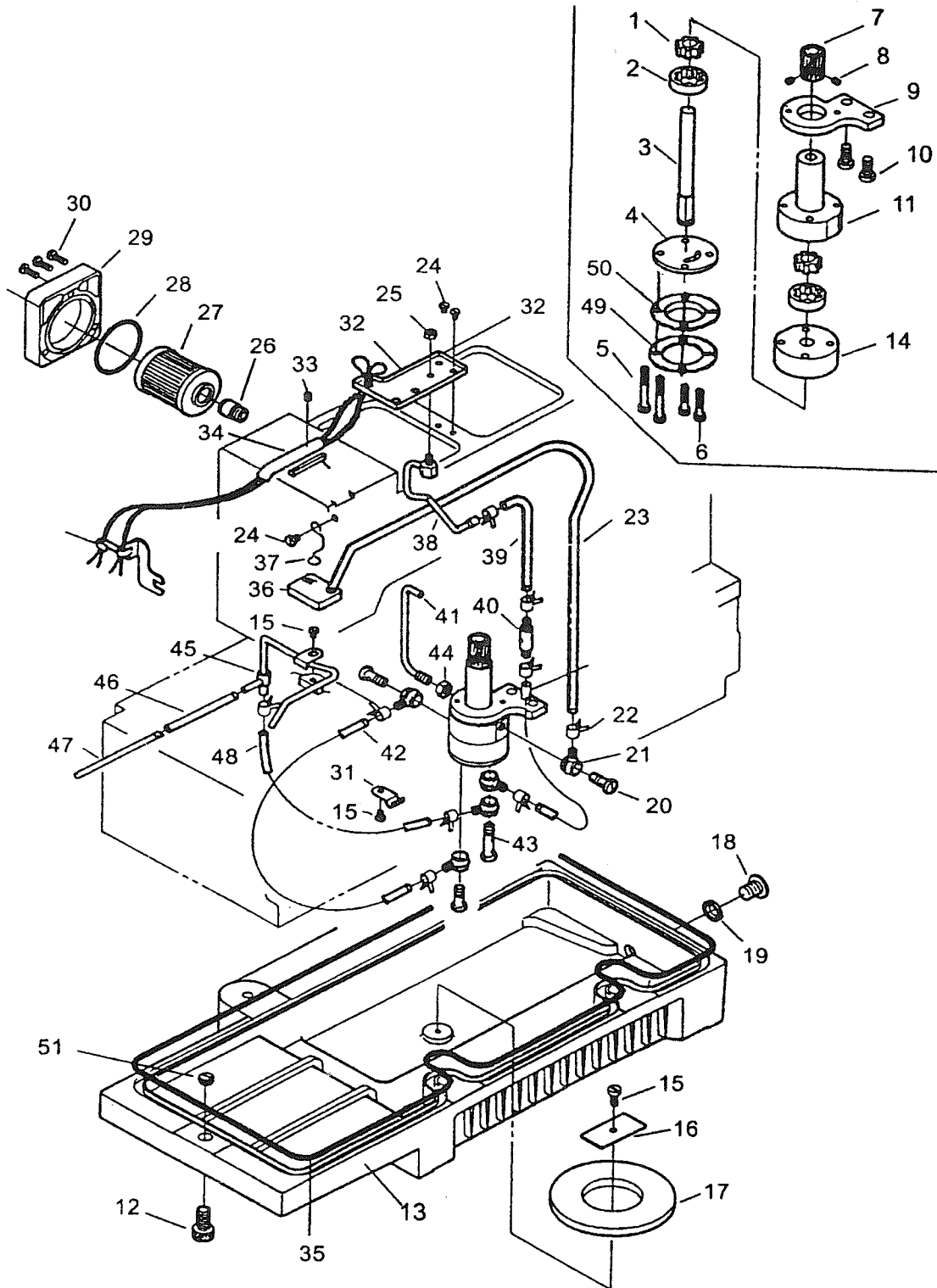
M. LOOPER THREAD MECHANISM



M. LOOPER THREAD MECHANISM

No	Ref.no	Name	Qt	Rm
1	8S09010-c04	Post nut	1	
2	8S09010-c05	Tension spring	1	
3	8S09010-c02	Small tension disc	2	
4	8S09010-c03	Screw	1	
5	8S13004	Stud	1	
6		Thread guide screw	2	GB/T67 M2.5×4
7		Washer	2	GB/T848 2.5
8	8S13005	Right thread guide	1	
9	8S13010	Heft thread guide	1	
10	(8S11015)	Screw	2	SM1/8"×44×3
11		Screw	2	GB/T65 M4×8
12	8S13011	Lower thread guide	1	
13	8S13009	Thread support	1	
14	8S13013	Presser spring	1	
15		"E" ring	3	GB/T896 4
16	8S13014	Left thread bracket	1	
17		Screw	1	GB/T77 M3×6
18	8S13006	Cast-off plate	1	
19		Washer	1	GB/T95 4
20		Screw	1	GB/T77 M4×6
21	8S13002	Post	1	
22		Pin	1	GB/T119.1 D2×10
23		Pin	1	GB/T119.1 D2×12
24	8S13016	Thread guide	1	
25	8S13008	Short guide bar	1	
26		Screw	2	GB/T70.1 M4×20
27	8S13007	Gasket	1	
28	8S13012	Guide bar	1	
29		"O" ring	1	GB/T3452.1 6×1.8
30	8S13003	Spring	1	
31		Washer	1	GB/T95 6
32	8S13015	Join bracket	1	
33	8S13001	Hand lifter	1	
34		Screw	1	GB/T77 M4×4

N. LUBRICATION MECHANISM



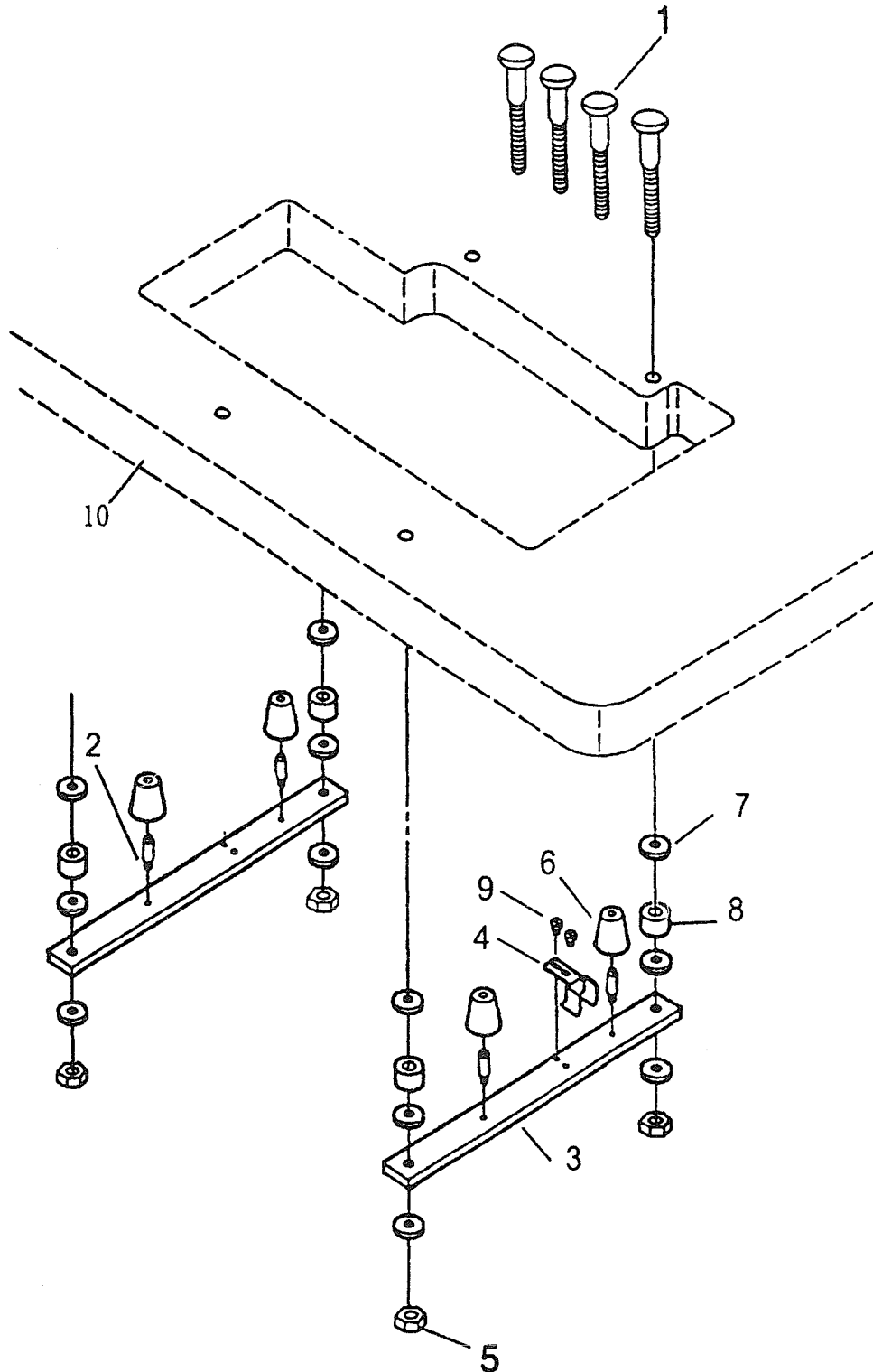
N. LUBRICATION MECHANISM

No	Ref.no	Name	Qt	Rm
1	8S14005-c07	Pump inner gear	1	
2	8S14005-c06	Pump gear	1	
3	8S14005-c04	Pump shaft	1	
4	8S14005-c01	Pump cover	1	
5		Screw	2	GB/T70.1 M4×42
6		Screw	2	GB/T70.1 M4×25
7	8S14005-c05	Worm wheel	1	
8		Screw	2	GB/T80 M4×4
9	8S14005-c08	Bracket	1	
10		Screw	2	GB/T70.1 M6×12
11	8S14005-c03	Pump body 1	1	
12		Screw	1	GB/T70.1 M8×22
13	8S14023	Oil reservoir	1	
14	8S14005-c02	Pump body 2	1	
15		Screw	2	GB/T65 M4×10
16	8S14021	Press plank	1	
17	8S14022	Magnet	1	
18	8S14019	Screw	1	SM3/8"×28
19	8S14020	Washer	1	
20	8S14014	Screw	3	SM1/4"×40
21	8S14013	Joint	5	
22	8S14012	Clamp spring	7	
23		Oil tube	1	φ6×1×480
24		Screw	3	GB/T65 M4×6
25		Nut	1	GB/T6170 M4
26	8S14010	Screw	1	M10×1
27	8S14009-e00	Oil filter set	1	
28		O-ring	1	GB/T3452.1 38.7×2.65
29	8S14008	Oil filter cap	1	
30		Screw	3	GB/T65 M4×16
31	8S14001-a02	Oil tube press plank	2	
32	8S14007	Oil guard	1	
33		Screw	1	GB/T77 M4×16
34	8S14025	Pipe	1	φ8×1
35	8S14024	Oil reservoir gasket	1	
36	8S14002	Oil felt	1	
37	8S14003	Latch	1	
38	8S14006-d00	Oil distributor (assy)	1	
39		Oil tube	1	φ6×1×340
40	8S14011-f00	Non-return valve (assy)	1	
41	8S14001-b00	Oil nozzle for worm gear (assy)	1	
42		Oil tube	1	φ6×1×160
43	8S14015	Screw	1	SM1/4"×40
44	8S14004-b02	Nut	1	SM1/4"×40

N. LUBRICATION MECHANISM

No	Ref.no	Name	Qt	Rm
45	8S14001-a00	Looper oil distributor (assy)	1	
46		Oil tube	1	φ6×1×35
47	8S14026	Oil pipe	1	φ6×0.5×80
48		Looper oil tube	1	φ6×1×260
49	8S14115-c09	Latch	1	
50	8S14005-c10	Oil filter screen	1	
51		Screw	1	GB/T73 M8×4

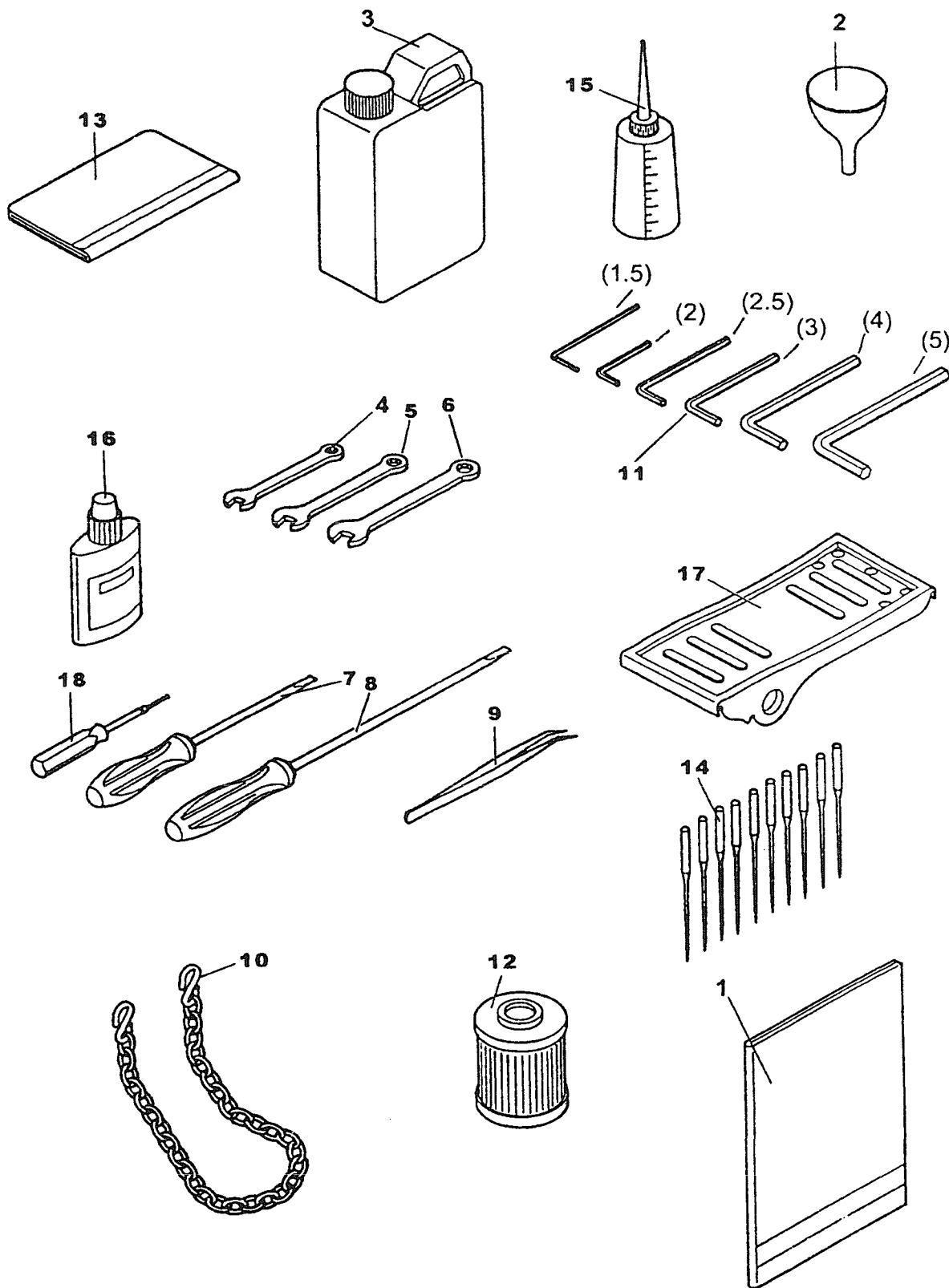
O. TABLE COMPONENTS



O. TABLE COMPONENTS

No	Ref.no	Name	Qt	Rm
1		Screw	4	GB/T14 M8×80
2	8S15003	Screw	4	
3	8S15005	Supporting board	2	
4	8S15004	Block chain guard	1	
5		Nut	4	GB/T41 M8
6	8S15002	Aam rubber cushion	4	
7		Duter washer	12	GB/T96 8
8	8S15001	Vibration-proof rubber pad	4	
9		Screw	2	GB/T70.1 M5×8
10		Table	1	1200×540×50
11		“L”machine stand (assy)	1	

P. MACHINE HEAD ACCESSORIES



P. MACHINE HEAD ACCESSORIES

No	Ref.no	Name	Qt	Rm
1		Operation manual	1	
2		Oil funnel	1	
3		Oil reservoir	1	1000ml
4	8S16001	Double- head wrench	1	6cm
5	8S16002	Double - head wrench	1	7cm
6	8S16003	Double - head wrench	1	8cm
7	8S16005	Screw driver	1	110cm
8	8S16006	Screw driver	1	200cm
9		Thread tweezers	1	90cm
10		Chain	1	950cm
11		Allen wrench	6	1.5、 2、 2.5、 3、 4、 5 (cm)
12	8S16009-e00	Oil filter set	1	
13	8S16007	Arm cover	1	
14		Needles	10	UY128GAS-70-75 (128GAS#10-11)
15		Small oiler	1	
16		Silicone oiler	1	50ml
17		peddle	1	
18	8S16004	Allen wrench	1	1/16"(1.588)

SHANGHAI HUIGONG NO.3 SEWING MACHINE FACTORY

ADD: 1418, Yishan Road, Shanghai, China

Zip Code: 201103

Overseas Business: TEL: 86-21-64853303 FAX: 86-21-64854304

E-mail: highlead@online.sh.cn <http://www.highlead.com.cn>