

ARTISAN®



TORO 2600

**Operators Manual
and
Spare Parts List**

1、

Specification

Sewing material	Extra heavy weight material (tent, bag, trunks & coat, etc.)
Max speed	1200rpm
Needle bar stroke	50.8(mm)
Thread take up	Link motion type(large size)
Hook:	Large size rotating hook
Presser bar stroke	Hand 12.7(mm); pedal 20(mm)
Max stitch length:	11(mm)
Feed mechanism:	Eccentric mechanism
Feed system	Alternating upper & lower feed
Reverse stitching:	Spring return lever or pedal system
Needle:	DD×1 25#
Stitch type:	Single needle lockstitch
Lubrication:	Semi-automatic lubrication by manual
Oil circulation:	Automatic capillary action of oil wicks
Oil	white spindle oil
Motor	Clutch motor (400w)

2.

Main parts name of machine head

(1) Face plate	(12) Thread guide	(23) Upper feed lifting rock shaft
(2) Walking foot pressure regulating thumb screw	(13) Upper thread tension regulator (lower)	(24) Upper feed rock shaft crank (left)
(3) Presser foot pressure regulating thumb screw	(14) Thread guide	(25) Upper feed rock shaft connecting crank (left)
(4) Upper thread tension regulator (upper)	(15) Slide plate (right)	(26) Square block
(5) Oil tank (left)	(16) Presser foot	(27) Connecting lever
(6) Spool pin	(17) Walking foot	(28) Connecting link
(7) Oil tank (right)	(18) Slide plate (left)	(29) Oil gauge
(8) Balance wheel	(19) Needle plate	(30) Upper feed rock shaft connecting crank (right)
(9) Rubber plug	(20) Knee lifter lever	(31) Lifting lever connecting rock (right)
(10) Reverse stitch lever	(21) Upper feed rock shaft	
(11) Thread take-up lever	(22) Upper feed lifting rock shaft crank(right)	

3.

Preparation before starting to operate

1)

Lubrication before starting to sew:

As the machine is drip lubrication from the oil reservoir, it is necessary to give oil thoroughly into the reservoir before starting operation each day.

Before starting to sew lubricate oil in following order.

(1)

Lubrication before starting to sew:

Before starting to sew, lubricate oil in the arrowed parts of fig 3 to 5.

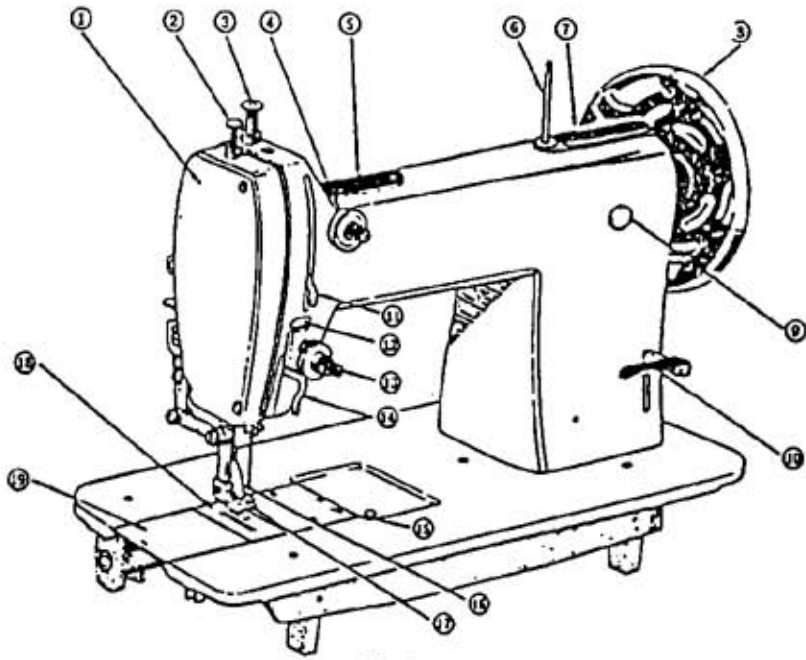


Fig. 1

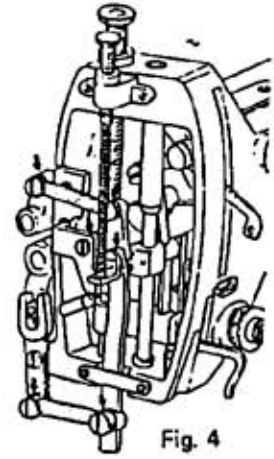


Fig. 4

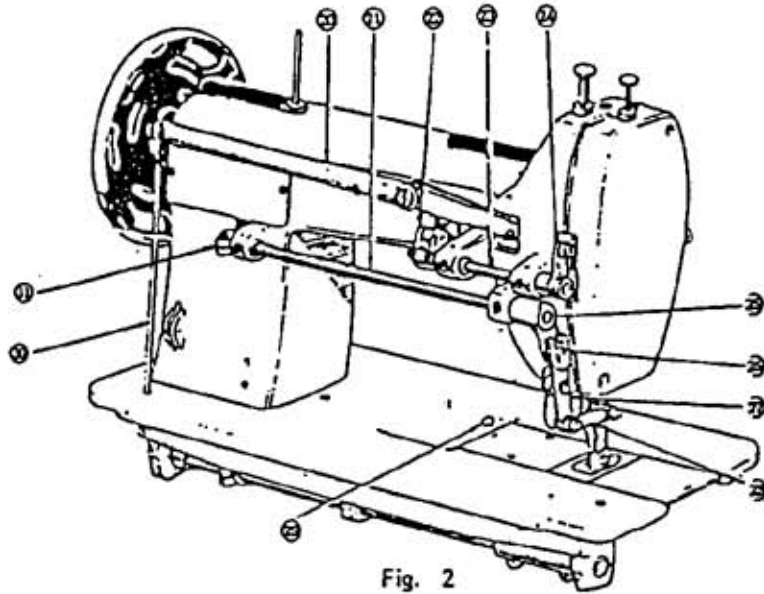


Fig. 2

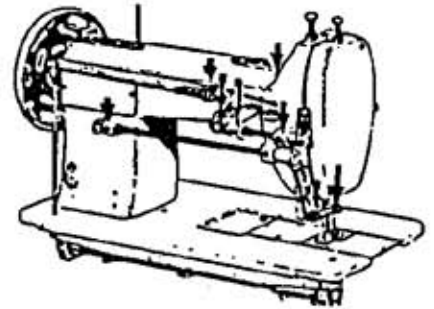


Fig. 5

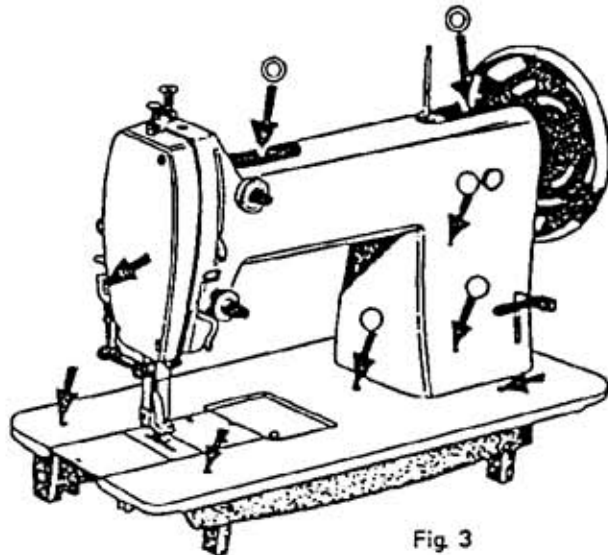


Fig. 3

To lubricate up to the rotating parts of machine, lubricate oil by rotating the balance wheel slowly by hand

(2)

Volume of lubrication:

⊙ → --- 5-6 drops

○ → --- 5-6 drops

→ --- 1-2 drops

(3)

Lubrication for machine bed oil tank:

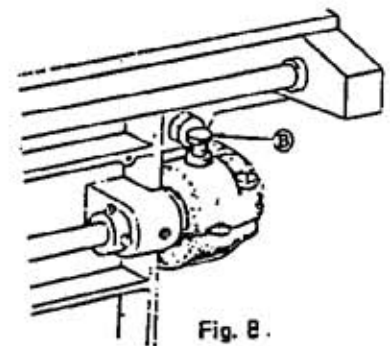
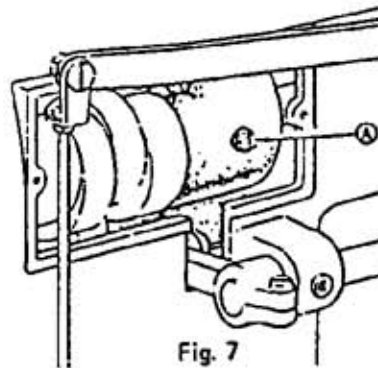
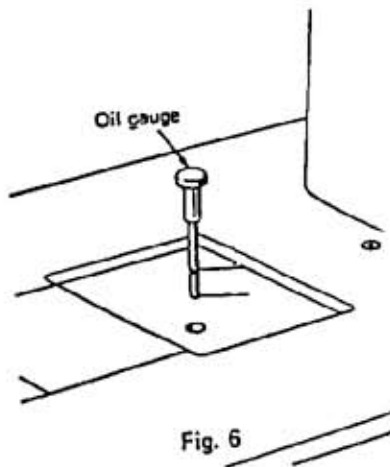
Pour oil up to the position on the oil gauge pulling out by hand (fig6)

In case of oil volume is insufficient, it will not lubricate to respective necessary parts and hook, so be sure to check it occasionally and replenish sufficiently to prevent locking-up of the machine.

2)

Application of grease:

Apply grease into the gear box by removing the greasing hole screw by rubber plug (A) and (B) (Fig7-8)

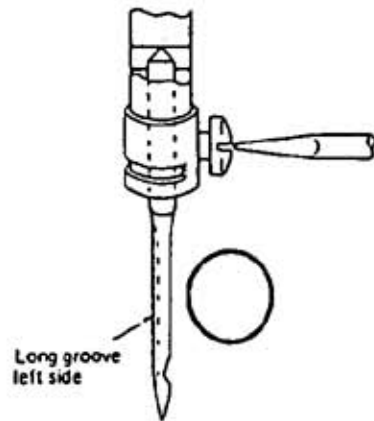


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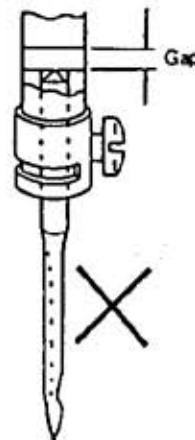
How to attach needle:

Note: Before making the following adjustment, switch off the power source by all means.

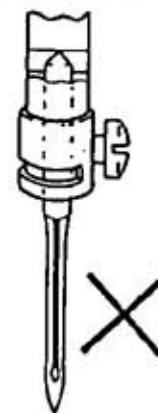
Insert the needle upto the bottom of needle clamp and tighten the screw keeping the long groove side of needle toward the left.



Insufficient insertion

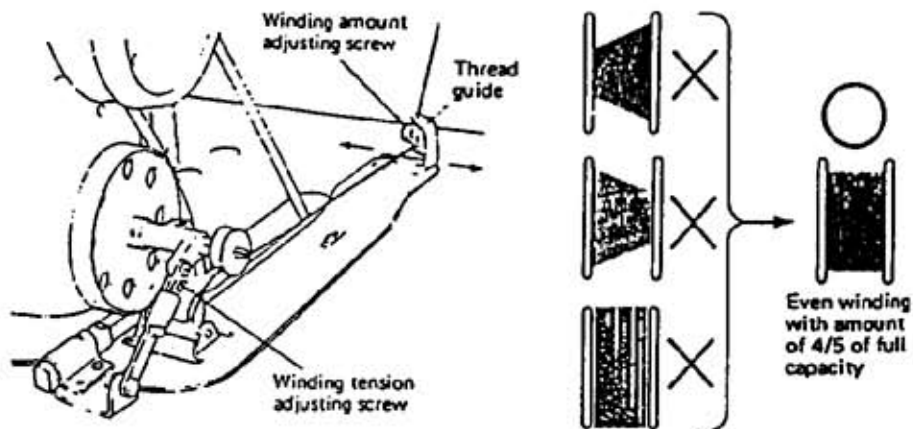


Needle distorted



5.

How to wind the lower thread on the bobbin



Note: In case of rotate the machine with sewing, keep the presser foot raised.

Adjustment: Strength of winding: particularly in case of nylon thread. It is desirable that the bobbin is wound enough loose.

Uneven winding: In case of uneven winding, adjust the thread guide slightly toward less wound part of bobbin so that to obtain even winding.

Winding amount of thread: When the winding amount of thread is excessive loosen adjusting screw and tighten when insufficient.

6.

Threading:

Note: The thread guide (c) of cotton stand is to be put just above of spool.
Raise the thread take-up lever to its highest position and thread the upper thread in the following order (Fig9).

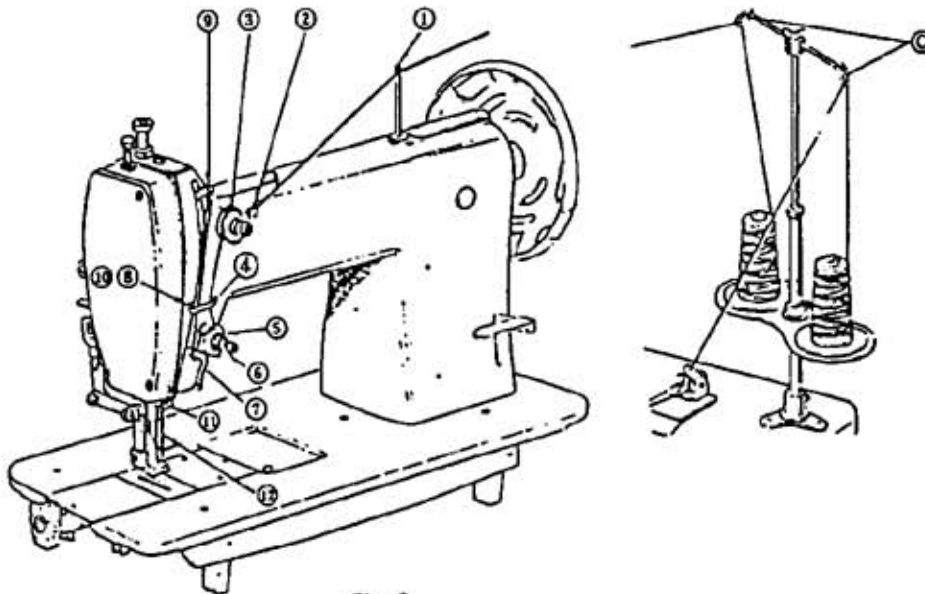


Fig. 9

7.

Adjustment of stitch length:

(1)

Remove the rubber plug (A) on the machine arm (Fig10).

(2)

Loosen the two screw (B) by rotating the balance wheel by hand (Fig11).

(3)

12)

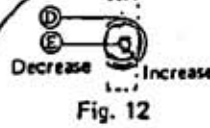
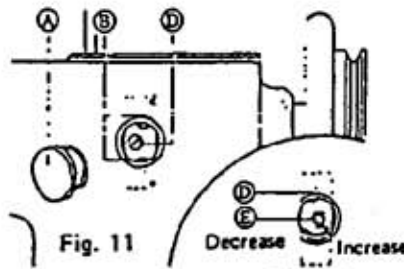
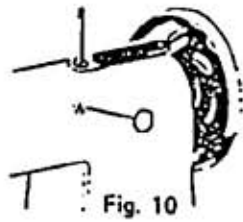
Then rotate the balance wheel by about 90° (1/4 rotation) toward the other side and adjust the stitch length by adjusting screw (E) to increase the stitch length turn it anticlockwise and to shorten clockwise (Fig12).

(4)

After the adjustment tighten the screw (B) firmly.




(5)

The screw (D) is not required to loosen. (Fig11)



8、

Adjustment of thread tension:

 <p>○</p> <p>Well balanced stitch</p>	 <p>×</p> <p>In case of upper thread is strong or lower thread is too weak</p>	 <p>×</p> <p>In case of upper thread is too weak or lower thread is too strong</p>
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9、

Upper thread tension:

Upper thread is adjusted according to the lower thread tension;

Upper thread tension is adjusted by tension regulating thumb nut;

For special fabric sewing with special thread, the desired tension can be obtained by adjusting the strength and operating range of thread take-up spring.

10、

Lower thread tension

Lower thread tension can be adjusted by screw A. In case of cotton thread No.3, the regular thread tension can be checked as the following. Hold the end of pulled out thread, and if the bobbin case fall slowly, the proper tension is obtained.

11、

Adjustment of pressure of the presser foot

Adjustment of pressure of presser foot can be done by means of the presser regulating thumb screw (large).

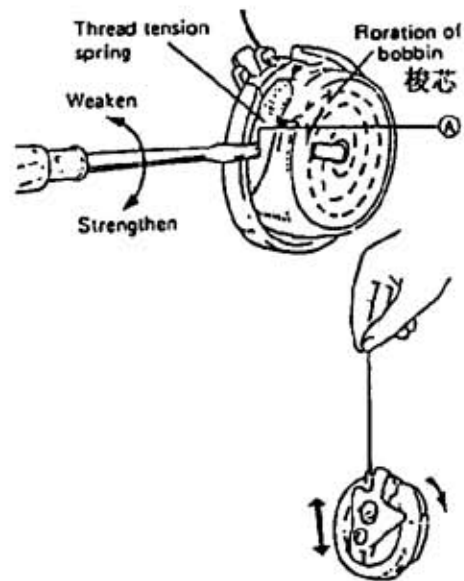
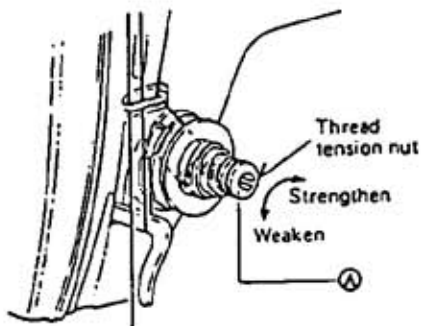
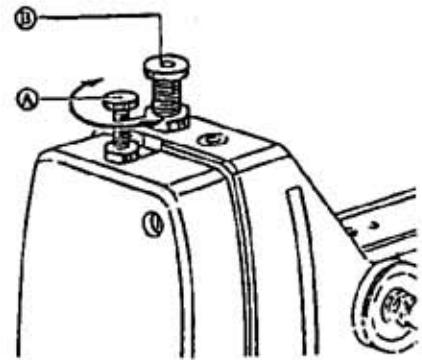
Turn the screw to the right to strengthen.

Turn the screw to the left to weaken.

Adjustment of pressure of walking foot can be done by means of the presser regulating thumb screw (small).

Turn the screw to the right to strengthen.

Turn the screw to the left to weaken.



12、

Adjustment of walking foot and presser foot

1)

Adjustment of alternating movement and height

The amount of movement is evenly adjusted as it is. But adjust the walking foot and presser foot alternating movement changing it evenly according to the material to be sewn so that more smooth normal feeding can be obtained.

For instance, in case of sewing up a slipping material, decrease the presser foot movement and increase the walking foot movement so that you can have effectiveness.

How to adjust (Fig. 13)

- (1) Rotate the balance wheel by hand and stop it when the thread take-up lever would be downward to its lowest position.
- (2) Lower the presser bar lifter.
- (3) Loosen the two screw(A) of the upper feed lifting rock shaft crank(right).
- (4) In proposition to moving the upper feed lifting rock shaft crank(left) to the right, the presser foot movement would be decreased and walking foot movement would be increased.
- (5) On the contrary, in case move to the left, the opposit effectiveness would be resulted.
- (6) After the adjustment lighten the two screws(A) firmly.

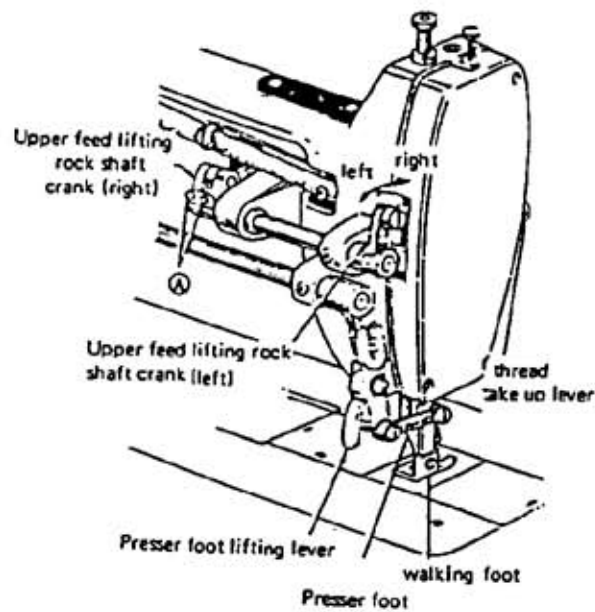


Fig. 13

13. Adjustment of proper timing movement of walking foot

According to variation of fabrics to be sewn appropriate stitching adjustment can be obtained by means of making a timing of the walking foot movement faster or slower against the feed dog movement.

How to adjust (Fig. 14)

- (1) Loosen the eccentric ring set screw(B) on the back of arm.
- (2) While fixed the eccentric by hand or screw driver, adjust it rotating the balance wheel slowly by hand.
- (3) Rotate the balance wheel toward your side so that the timing of walking foot movement would be slower.
- (4) Rotate the balance wheel toward the other side so that the timing of walking foot movement would be faster.
- (5) After the adjustment tighten the screw(B) firmly pushing the eccentric ring to the way of arrow shown in Fig

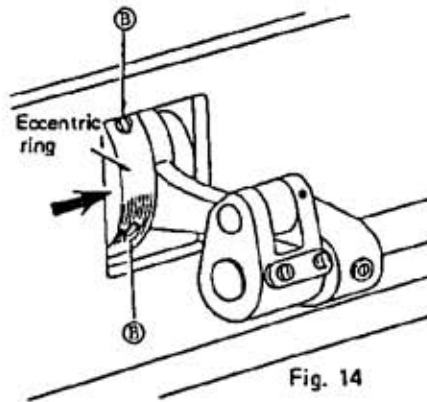


Fig. 14

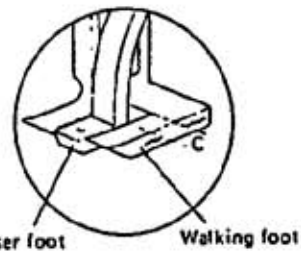


Fig. 15

A gap between the presser foot and walking foot

14、

In case of gag(C) of presser foot and walking foot is wider excessively, and either presser feet are touched please adjust it in the position described as following.

How to adjust

- (1) Loosen the screw(D) on the upper feed rock shaft crank(right).
- (2) Adjust the gap properly moving the walking foot back and forth.
- (3) After the adjustment tighten the screw(D) firmly.

On the delivery machine is adjusted for narrowest gap of 3mm when the maximum stitch length of 12.7mm.

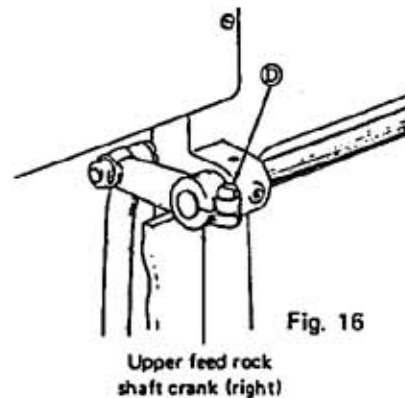


Fig. 16

Upper feed rock shaft crank (right)

15.

Timing between upper and lower feed

The amount of feed dog movement is evenly adjusted for the upper feed amount. But according to the material to be sewn appropriate stitching can be obtained by means of making a timing of the walking foot movement faster or slower against the feed dog movement.

How to adjust (Fig. 17)

- (1) Loosen then nut on the upper feed lifting rock shaft crank (left).
- (2) To decrease the movement, slide the square block upward and to increase for the downward.
- (3) After the adjustment tighten the nut firmly.

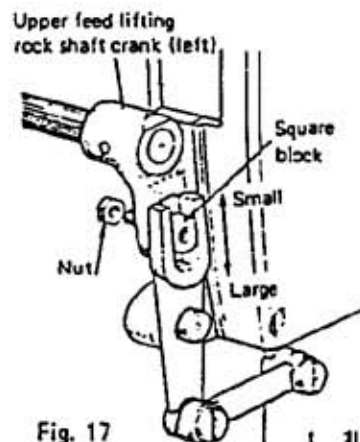


Fig. 17

16

The position of the hook and needle

- (1) Turn the balance wheel by hand so that the needle comes to its lowest position.

Thereafter, raise the needle by 4.5mm from the lowest position, and then adjust the hook so that the tip of hook comes to the center line of the needle (Fig.19).

At the same time, adjust the height of needle so that the gap between upper side of needle thread hole and the tip of hook would be 1.5mm.

- (2) The gap between the concave face of the needle and tip of hook would be approx. 0.05mm as
- (3)

To adjust the height of needle, loosen the screw (A) of the needle bar holder (Fig. 18) and move the needle bar up and down by hand.

After the adjustment tighten the screw(A) firmly.

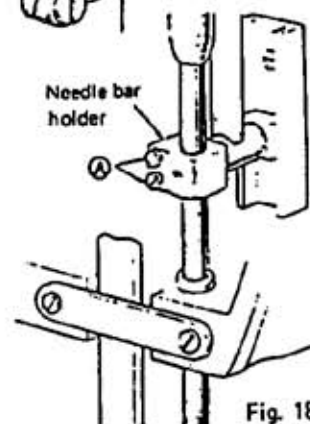


Fig. 18

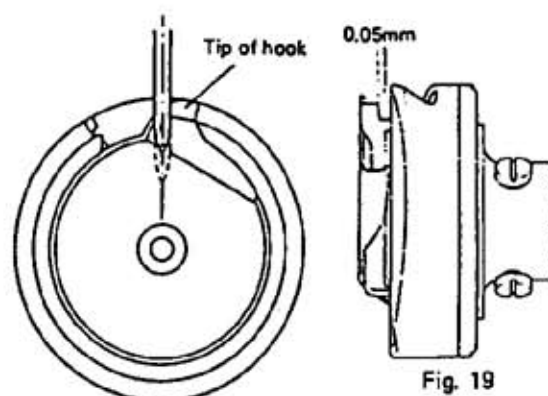
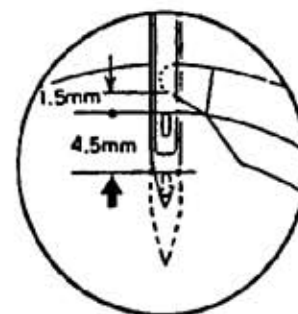
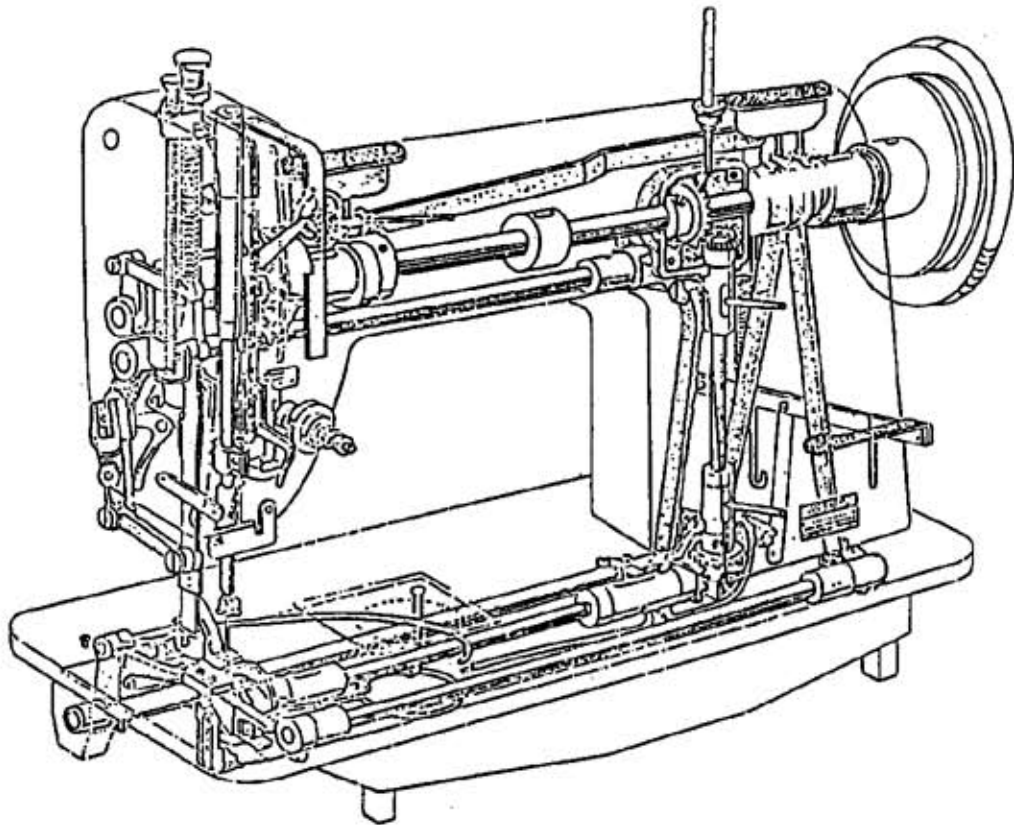


Fig. 19

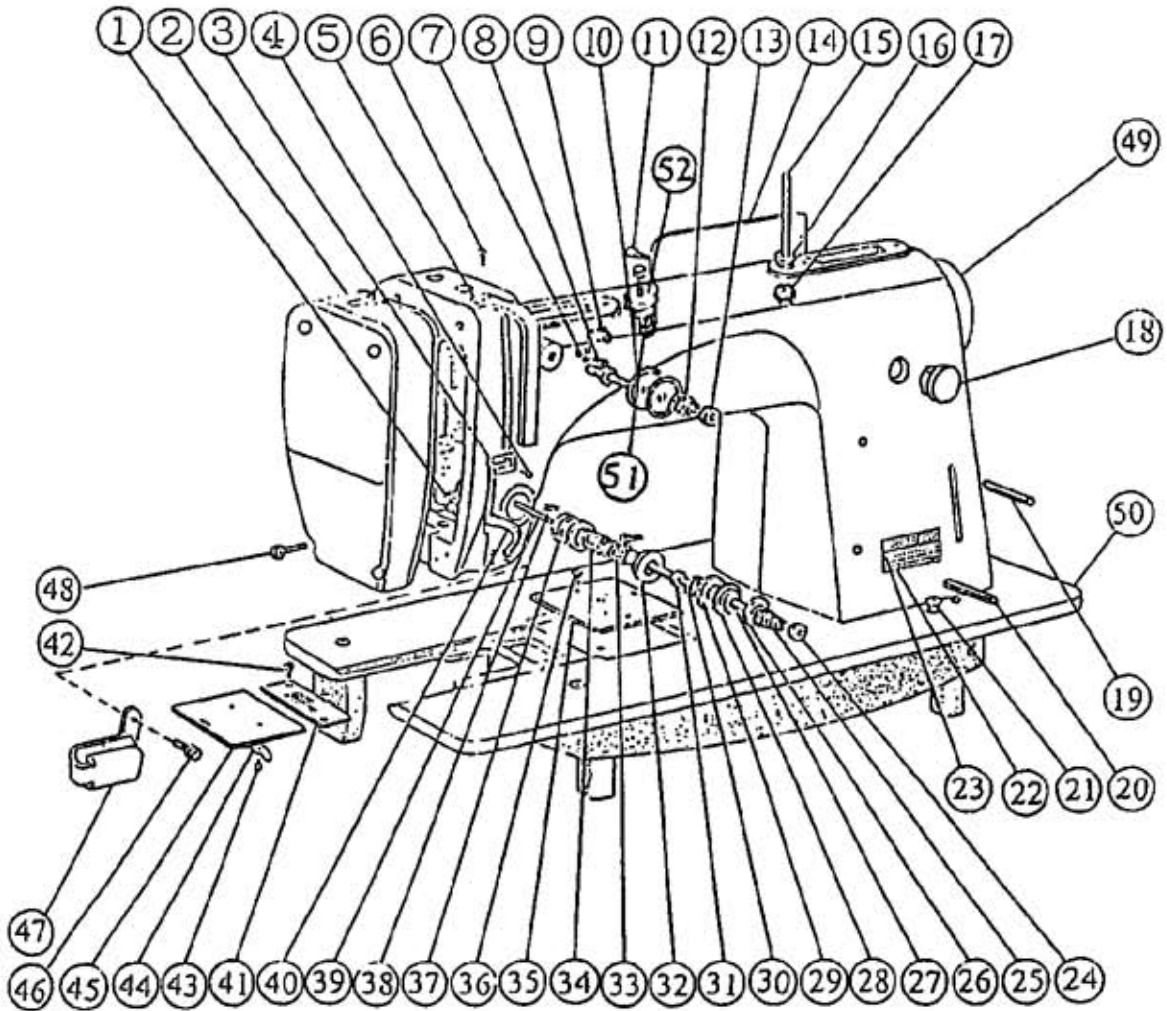
1

CONSTRUCTION

1



2



ARM BED & ITS ACCESSORIES

NO.	REF. NO	DESE	PCS	REMARKS
1	BM12-01-017	Upper thread guide screw	2	SM11/64" (4.37)*40/15
2	BM12-01-003	Face plate	1	
3	BM12-01-004	Thread guide(middle)	1	
4	22T1-003C6	Screw	2	SM9/64" (3.57)*40/6
5	BM12-01-020	Thread take-up lever guard	1	
6	72T1-003	Thread take-up lever guard screw	2	SM11/64" (4.37)*40/8
7	BM12-01-006B1	Tension stud	1	
8	72T1-013	Screw	1	SM11/64" (4.37)*40/8
9	BM12-01-007	Thread guide(upper)	1	
10	BM12-01-006B2	Tension disc	2	
11	72T1-017	Screw	2	SM11/64" (4.37)*40/6
12	BM12-01-006B3	Tension spring	1	
13	BM12-01-006B4	Tension regulating thumb nut	1	
14	BM12-01-005	Arm side cover	1	
15	BM12-01-008C2	Thread spool pin	1	
16	BM12-01-008C1	Thread spool stand	1	
17	BM12-01-008C3	Nut thread spool stand	1	SM15/64" (5.95)*28
18	72T1-004C3	Rubber plug	1	Φ 19
19	BM12-01-018	Oil pipe (upper)	1	

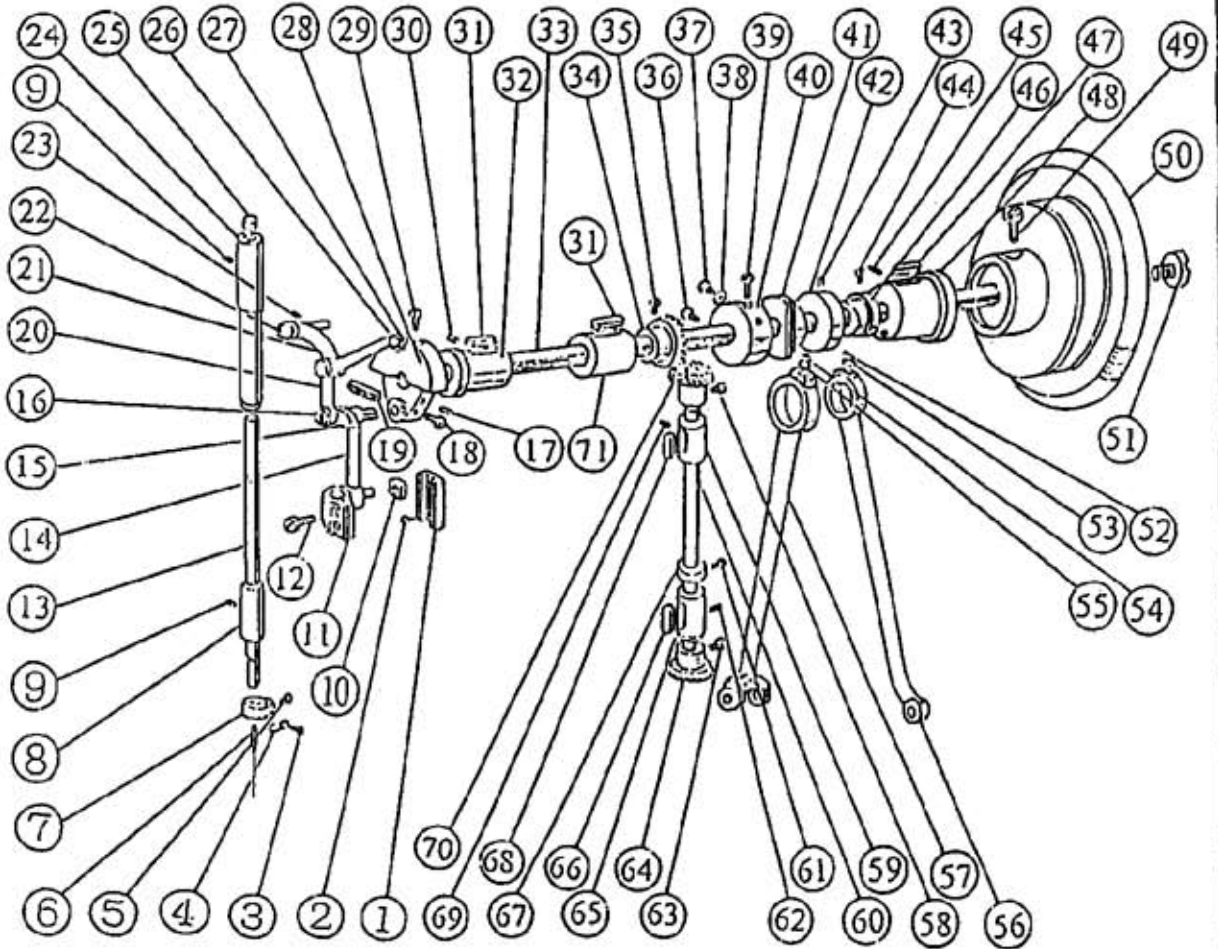
ARM BED & ITS ACCESSORIES

NO.	REF. NO	DESE	PCS.	REMARKS
20	BM12-01-019	Oil pipe (lower)	1	
21	BM12-01-009	Oil cap	5	
22	BM12-01-002	Trade mark plate	1	
23	GB827	Trade mark plate rivet	2	φ 2.5*5
24	BM12-01-006B4	Tension regulating thumb nut	1	
25	BM12-01-011D1	Tension spring	1	
26	72T1-007F2	Tension releasing disc	1	
27	BM12-01-011D5	Tension stud	1	
28	BM12-01-011D3	Tension disc(1)	1	
29	BM12-01-011D2	Tension disc(2)	1	
30	BM12-01-011D4	Felt	1	
31	GB896	C-type stop ring	1	
32	BM12-01-011D6	Tension adjusting bushing	1	
33	BM12-01-011D7	Tension take-up spring	1	
34	BM12-01-011D8	Spring	1	
35	BM12-01-013	Slide plate(right)	1	
36	BM12-01-014	Set screw	2	SM3/16" (4.76)*28/8
37	BM12-01-011D9	Tension regulating	1	
38	72T3-005D1a3	Screw	1	SM15/64" (5.95)*28/7

ARM BED & ITS ACCESSORIES

NO.	REF.NO	DESE	PCS.	REMARKS
39	BM12-01-011D10	Tension releasing pin	1	
40	BM12-01-012	Upper thread guide	1	
41	BM12-01-015	Needle plate	1	
42	BM12-01-014	Screw	2	SM3/16" (4.76)*28/8
43	BM12-01-016E3	Screw	2	
44	BM12-01-016E2	Spring for slide plate	1	
45	BM12-01-016E1	Slide plate(left)	1	
46	22T1-003C6	Screw	1	SM9/64" (3.57)*40/6
47	BM05-01-013	Thread guide(lower)	1	
48	BM12-01-017	Screw	4	SM11/64" (4.37)*40/15
49	BM12-01-001A2	Processing drawing for arm	1	
50	BM12-01-001A1	Processing drawing for base plate	1	
51	GB119-86		1	φ5X20
52			1	

3



ARM SHAFT NEEDLE BAR & THREAD TAKE-UP LEVER MECHANISM

NO.	REF. NO	DESCRIPTION	PCS.	REMARKS
1	BM12-02-009	Needle bar connecting link guide	1	
2	22T2-019	Set screw	2	SM11/64" (4.37)*40/8
3	22T8-011C4	Set screw	1	SM9/64" (3.57)*40/4.5
4	BM12-02-015	Thread guide for needle clamp	1	
5	22T5-001A4	Set screw	1	SM15/64" (5.95)*28/10
6		Needle	1	DD*1 25#
7	BM12-02-014	Needle clamp	1	
8	BM12-02-012	Needle bar bushing(lower)	1	
9	22T1-011	Set screw	2	SM11/64" (4.37)*40/4.5
10	BM12-02-008	Needle bar connecting block	1	
11	BM12-02-006	Needle bar holder	1	
12	BM12-02-007	Set screw	2	SM3/16" (4.76)*32/12
13	BM12-02-013	Needle bar	1	
14	BM12-02-005	Needle bar connecting link	1	
15	BM12-02-003	Thread take up lever crank	1	
16	BM12-02-004	Set screw	1	SM9/64" (3.57)*40
17	BM12-02-016B4	Set screw	1	SM9/32" (7.14)*28/10
18	BM12-02-016B3	Set screw	1	SM3/16" (4.76)*28/10
19	BM12-02-016B2	Thread take up lever crank pin	1	

ARM SHAFT NEED BAR & THREAD TAKE-UP LEVER MECHANISM

NO.	REF. NO	DESCRIPTION	PCS.	REMARKS
20	BM12-02-001A1a1	Thread take-up lever	1	
	BM12-02-001A1a4	Hinge pin		
21	BM12-02-001A1a5	Thread take-up lever link	1	
22	BM12-02-002	Thread take-up lever hinge pin	1	
23	22T2-002	Set screw	1	SM15/64" (5.95)*28/10
24	BM12-02-011	Needle bar bushing (upper)	1	
25	BM12-02-010	Felt	1	
26	BM12-02-001A1a2	Socket for thread take-up lever	1	
27	BM12-02-001A1a3	Set screw	1	SM3/32" (2.38)*56/8
28	BM12-02-016B1	Crank	1	
29	22T2-007	Set screw	1	SM9/32" (7.14)*28/14
30	22T2-002	Set screw	1	SM11/64" (5.95)*28/10
31	BM12-03-003	Felt	2	
32	BM12-03-002	Arm shaft bushing (left)	1	
33	BM12-03-001	Arm shaft	1	
34	BM12-03-016B1	Bevel gear for arm shaft	1	
35	BM12-03-016B2	Set screw	2	SM1/4" (6.35)*40/8
36	22T5-001A4	Set screw	2	SM15/64" (5.95)*28/10
37	72T1-013	Set screw	2	SM11/64" (4.37)*40/5.5
38	GB93	Washer	2	

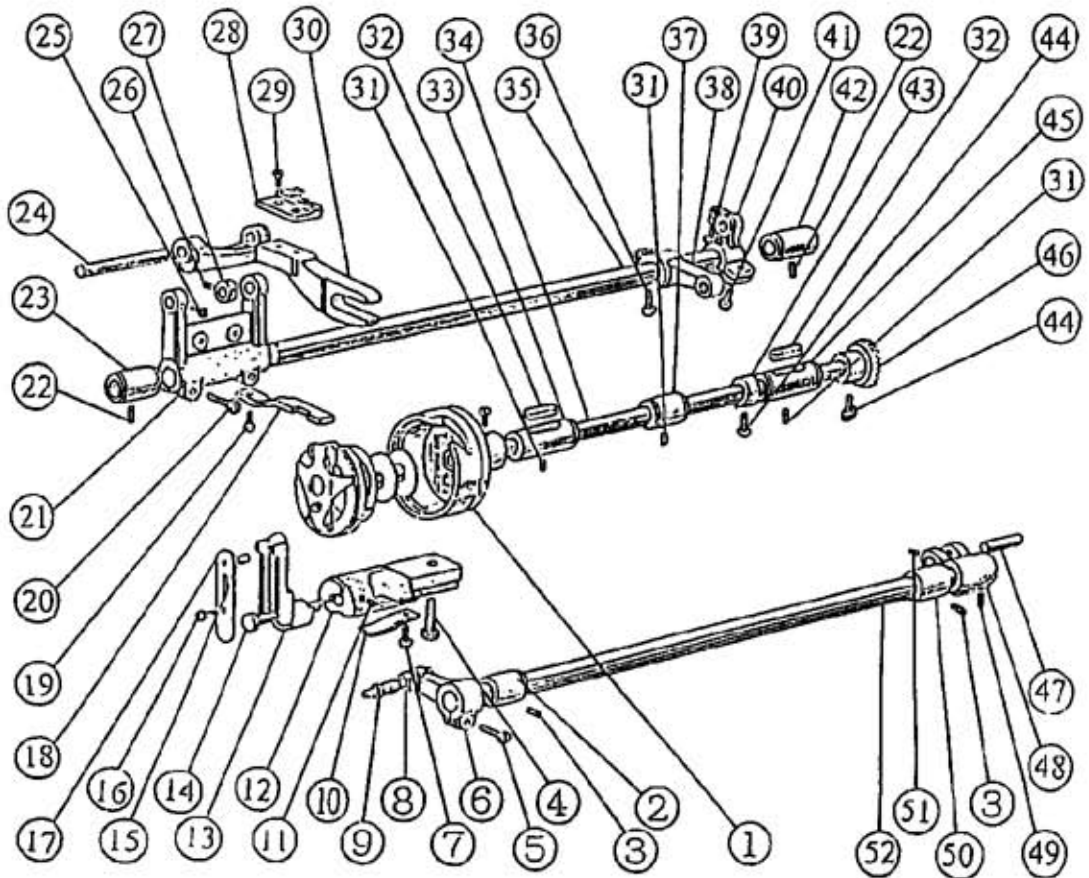
ARM SHAFT NEEDLE BAR & THREAD TAKE-UP LEVER MECHANISM

NO.	REF.NO	DESCRIPTION	PCS.	REMARKS
39	BM12-03-004A3	Thumb screw for feed cam	1	SM3/16" (4.76)*28/18
40	BM12-03-004A2	Feed cam regulator	1	
41	BM12-03-004A1	Feed cam	1	
42	BM12-03-008	Collar	1	
43	22T2-002	Set screw	2	SM15/64" (5.95)*28/10
44	22T5-001A4	Set screw	2	SM15/64" (5.95)*28/10
45	22T2-002	Set screw	1	SM15/64" (5.95)*28/10
46	BM12-03-009	Feed lifting cam	1	
47	BM12-03-003	Felt	1	
48	BM12-03-011	Arm shaft bushing (right)	1	
49	BM12-03-014	Set screw	2	SM9/32" (7.14) *28/16
50	BM12-03-013	Balance wheel	1	
51	BM12-03-015	Set screw	1	SM11/32" (8.73)*28/16
52	BM12-03-007	Spring	1	
53	BM12-03-006	Felt	1	
54	BM12-03-007	Spring	1	
55	BM12-03-006	Felt	1	
56	BM12-03-010	Feed lifting	1	
57	BM12-03-005	Feed rock shaft connecting rod	1	

ARM SHAFT NEEDLE BAR & THREAD TAKE-UP LEVER MECHANISM

NO.	REF.NO	DESCRIPTION	PCS.	REMARKS
58	BM12-03-016B2	Set screw	2	SM1/4" (6.35)*40/8
59	BM12-03-017C2	Vertical shaft bushing (upper)	1	
60	BM12-03-017C3	Vertical shaft	1	
61	BM12-03-016B2	Screw	2	SM1/4" (6.35)*40/8
62	22T2-002	Screw	1	SM15/64" (5.95)*28/10
63	BM12-03-016B2	Screw	2	SM1/4" (6.35)*40/8
64	BM12-03-017C6	Bevel gear (lower)	1	
65	BM12-03-017C5	Vertical shaft bushing (upper)	1	
66	BM12-04-003	Felt	1	
67	BM12-03-017C4	Collar	1	
68	BM12-04-003	Felt	1	
69	22T2-002	Screw	1	SM15/64" (5.95)*28/10
70	BM12-03-017C1	Bevel gear (upper)	1	
71	BM12-03-012	Arm shaft bushing (middle)	1	

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LOWER SHAFT ROTATING HOOK & FEED MECHANISM

NO.	REF. NO	DESCRIPTION	PCS.	REMARKS
1	BM12-04-008A	Rotating hook assy	1	
2	BM12-06-003	Feed lifting rock shaft bushing	1	
3	22T2-002	Screw	2	SM15/64" (5.95)*28/10
4	BM12-04-012B2	Screw	1	SM5/16" (7.94)*24/26
5	BM12-06-007B2	Screw	1	SM15/64" (5.95)*28/14
6	BM12-06-007B1	Feed lifting rock shaft crank assy	1	
7	22T2-019	Screw	1	SM11/64" (4.37)*40/8
8	BM12-06-007B3	Square block	1	
9	BM12-06-007B4	Square block set pin	1	
10	BM12-04-012B3	Spring	1	
11	72T3-005D1a3	Screw	1	SM15/64" (5.95)*28/7
12	BM12-04-012B1	Rotating hook positioner bracket	1	
13	BM12-04-012B4	Rotating hook positioner crank	1	
14	BM12-04-012B5	Set pin	1	
15	BM12-04-012B6-2	Set pin	1	
16	22T1-003C6	Screw	1	SM9/64" (3.57)*40/6
17	BM12-04-012B6-1	Rotating hook positioner spring	1	
18	BM12-04-010	Rotating hook positioner	1	
19	22T6-008D3	Screw	1	SM11/64" (4.37)*40/12

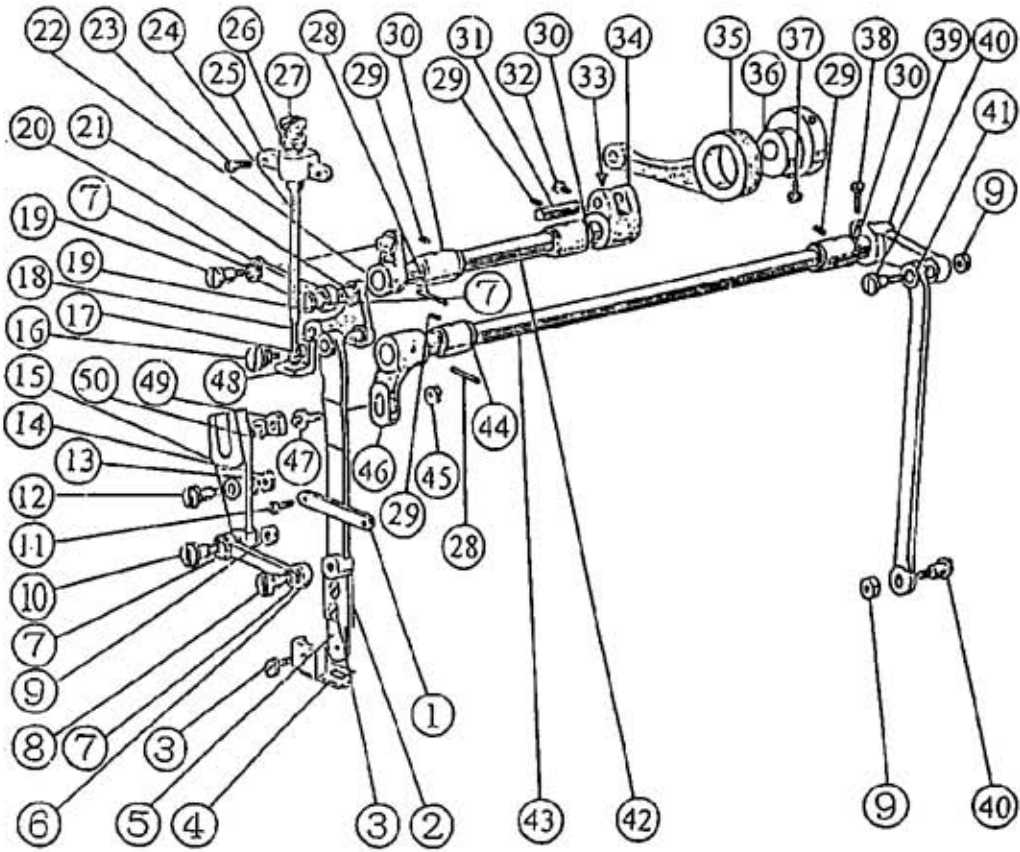
LOWER SHAFT ROTATING HOOK & FEED MECHANISM

NO.	REF. NO	DESCRIPTION	PCS.	REMARKS
20	BM02-08-007	Screw	2	SM1/4" (6.35)*24/16
21	BM12-06-001A1	Feed rock shaft crank(left)	1	
22	22T2-002	Screw	2	SM15/64" (5.95)*28/10
23	BM12-06-003	Feed rock shaft bushing (left)	1	
24	BM12-06-001A3	Food bar shaft	1	
25	22T2-019	Screw	2	SM11/64" (4.37)*40/8
26	72T4-002B2	Screw	2	SM15/64" (5.95)*28/4.5
27	BM12-06-001A4	Collar	1	
28	BM12-06-001A5	Feed dog	1	
29	BM12-06-001A6	Screw	2	SM9/64" (3.57)*40/8.5
30	BM12-06-001A2	Feed bar	1	
31	22T2-002	Screw	3	SM15/64" (5.95)*28/10
32	BM12-04-003	Felt	2	
33	BM12-004-002	Rotating hook shaft bushing(left)	1	
34	BM12-04-001	Rotating hook shaft	1	
35	BM12-06-002	Feed rock shaft	1	
36	BM02-08-007	Screw	1	SM1/4" (6.35)*24/16
37	BM12-04-004	Rotating hook shaft bushing(middle)	1	
38	BM12-06-004	Feed lifting connecting crank	1	

LOWER SHAFT ROTATING HOOK & FEED MECHANISM

NO.	REF. NO	DESCRIPTION	PCS.	REMARKS
39	72T6-001A6	Screw	1	SM3/16" (4.76)*28/15
40	BM12-06-005	Feed rock shaft crank (right)	1	
41	BM02-08-007	Screw	1	SM1/4" (6.35)*24/16
42	BM12-06-006	Feed rock shaft bushing	1	
43	BM12-03-017C4	Collar	1	
44	BM12-03-016B2	Screw	4	SM1/4" (6.35)*40/8
45	BM12-04-006	Rotating hook shaft bushing (right)	1	
46	BM12-04-007	Bevel gear for lower shaft	1	
47	BM12-08-003	Set pin	1	
48	BM12-06-009	Feed lifting rock shaft crank(right)	1	
49	22T3-007C2	Screw	2	SM15/64" (5.95)*28/12
50	BM12-06-006	Feed lifting rock shaft (right)	1	
51	22T1-011	Screw	1	SM11/64" (4.37)*40/5.5
52	BM12-06-008	Feed lifting rock shaft	1	

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UPPER FEED MECHANISM

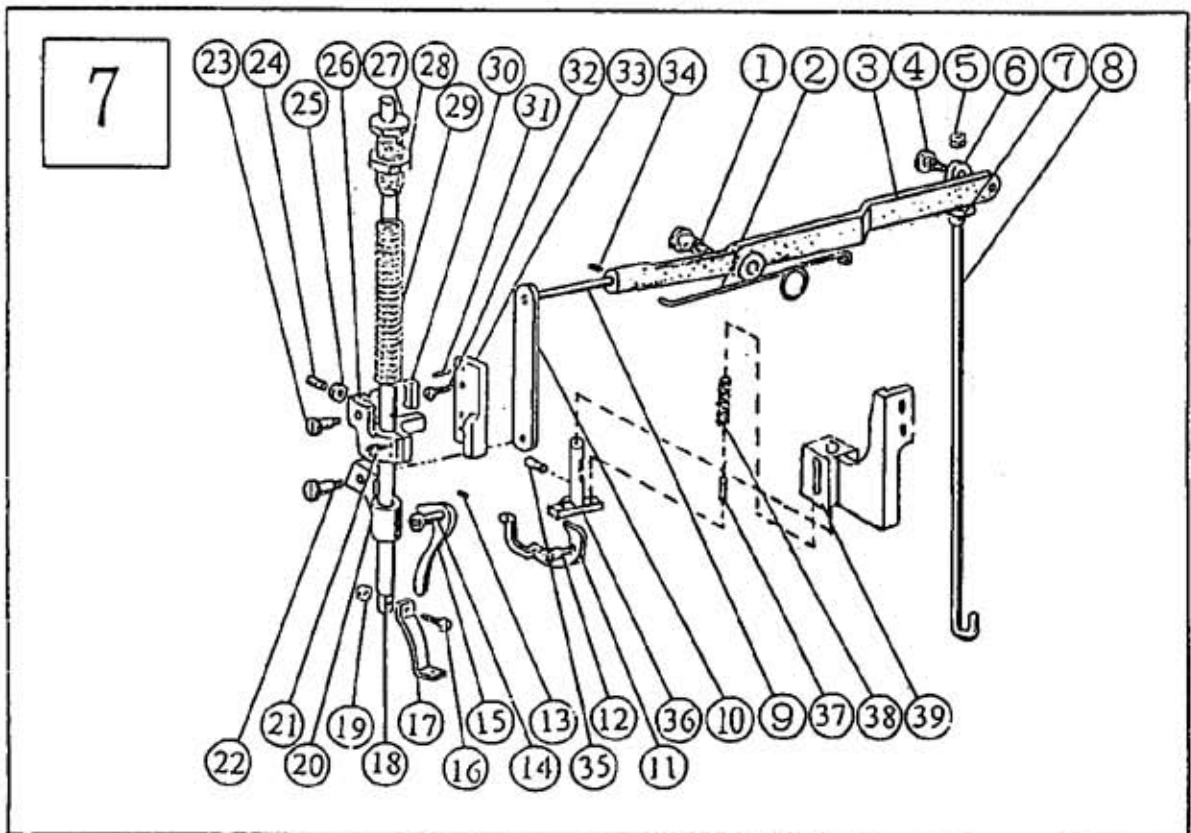
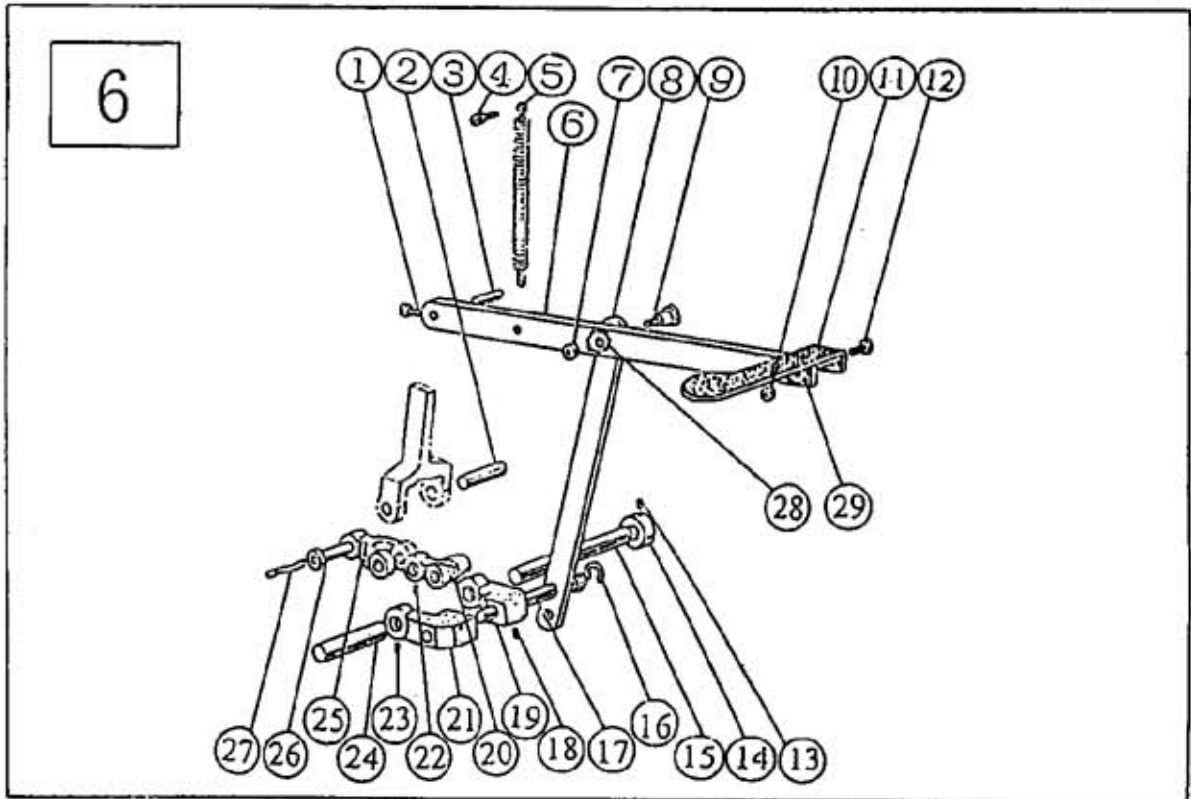
NO.	REF. NO	DESCRIPTION	PCS.	REMARKS
1	BM12-08-011	Walking foot supporter guide	1	
2	BM12-08-009C2	Walking foot supporter bushing	1	
3	BM12-08-023	Screw	3	
4	BM12-08-022	Walking foot	1	
5	BM12-08-009C1	Walking foot supporter	1	
6	BM12-08-020	Walking foot supporter link	1	
7	22T2-001A5	Needle bearing	4	
8	BM12-08-021	Screw	1	
9	BM02-08-046	Nut	3	
10	BM02-08-044	Screw	1	
11	72T2-003	Screw	2	SM11/64" (4.37)*40/8
12	BM12-08-019	Screw	1	
13	GB93	Spring washer	1	
14	BM02-08-048	Nut	1	
15	BM12-08-018	Food connecting lever	1	
16	BM12-08-010	Bell crank screw	1	
17	BM12-08-017D2	Bell crank pin stud	1	
18	BM12-08-017D1	Bell crank pin	1	
19	BM02-08-022	Screw	2	

UPPER FEED MECHANISM

NO.	REF. NO	DESCRIPTION	PCS.	REMARKS
20	BM12-08-007	Feed lifting rock shaft link	1	
21	BM12-08-008	Bell crank	1	
22	BM12-08-004B2	Feed lifting rockshaft rank(left)	1	
23	72T2-003	Screw	2	SM11/64" (4.37)*40/8
24	BM12-08-015	Bell crank spring	1	
25	BM12-08-014	Presser regulating bracket	1	
26	BM12-08-013	Nut	1	
27	BM12-08-012	Feed regulating thumb screw	1	
28	GB117	Taper pin	2	φ 4*23
29	22T2-002	Screw	4	SM15/64" (5.95)*28/10
30	BM12-08-006	Bushing	3	
31	BM12-08-003	Set pin	1	
32	22T3-007C2	Screw	2	SM15/64" (5.95)*28/12
33	22T1-011	Screw	1	SM11/64" (4.37)*40/5.5
34	BM12-08-002	Feed lifting rock shaft crank(right)	1	
35	BM12-08-024	Feed connecting crank rod	1	
36	BM12-08-025	Feed lifting eccentric	1	
37	22T2-002	Screw	2	SM15/64" (5.95)*28/10
38	BM02-08-007	Screw	1	SM1/4" (6.35)*24/16

UPPER FEED MECHANISM

NO.	REF. NO	DESCRIPTION	PCS.	REMARKS
39	BM12-08-026	Feed driving crank (right)	1	
40	BM12-08-028	Screw	2	
41	BM12-08-027	Feed driving connecting link	1	
42	BM12-08-004B1	Feed lifting rock shaft (upper)	1	
43	BM12-08-001A1	Feed driving rock shaft (upper)	1	
44	BM12-08-005	Feed driving shaft bushing (left)	1	
45	BM02-08-041	Nut	1	
46	BM12-08-001A2	Feed rock shaft crank(left)	1	
47	BM02-08-031C2	Feed connecting stud	1	
48	BM12-08-016	Prop up washer	1	
49	BM02-08-031C1	Slide block	1	
50	G8896	C-type stop ring	1	



REVESE STITCH LEVER MECHANISM

NO.	REF. NO	DESCRIPTION	PCS.	REMARKS
1	22T1-001A9	Screw	1	SM9/64" (4.37)*40/6
2	BM12-05-018	Pin	1	
3	BM12-05-002	Pin	1	
4	BM12-05-004	Spring guide pin	1	
5	BM12-05-003	Spring	1	
6	BM12-05-001	Reverse stitch lever	1	
7	BM02-08-048	Nut	1	SM15/64" (5.95)*28
8	BM12-05-005	Reverse stitch lever connecting plate	1	
9	BM12-05-006	Screw	1	SM15/64" (5.95)*28
10	BM12-05-008	Nut	1	SM3/16" (4.76)*40
11	BM12-05-007	Reverse stitch lever plate	1	
12	BM12-01-014	Screw	1	SM3/16" (4.76)*28/10
13	72T4-002B2	Screw	2	SM15/64" (5.95)*28/7
14	BM12-05-010	Collar	1	
15	BM12-05-009	Reverse stitch shaft	1	
16	GB896	E type stop ring	1	φ6
17	BM12-05-011	Pin	1	
18	BM12-05-014	Screw	2	SM3/16" (4.76)*28/7
19	BM12-05-012	Reverse stitch crank(right)	1	

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REVERSE STITCH LEVER MECHANISM

NO.	REF. NO	DESCRIPTION	PCS.	REMARKS
20	BM12-05-015	Vibrating link	1	
21	BM12-05-012	Reverse stitch crank (left)	1	
22	72T3-005D1a3	Screw	2	SM15/64" (5.95)*28
23	BM12-05-014	Screw	1	SM3/16" (4.76)*28/7
24	BM12-05-013	Pin	1	
25	BM12-05-016	Connecting link	1	
26	BM12-05-017	Pin	1	
27		Oil wick	1	φ 2.5*35
28	GB862	Stop washer	1	
29	GB862	Stop washer	1	

PRESSER FOOT MECHANISM

NO.	REF. NO	DESCRIPTION	PCS.	REMARKS
1	BM12-07-018	Screw	1	SM5/16" (7.94)*28
2	BM12-07-019	Spring	1	
3	BM12-07-017	Knee lifter lever	1	
4	BM12-07-021	Screw	1	SM15/64" (5.95)*28/10
5	GB54	Nut	1	M5
6	BM12-07-020	Knee lifter connecting bracket	1	
7	GB54	Nut	1	M5
8	BM12-07-022	Lifting lever connecting rod	1	
9	GB119	Knee lifter lever pin	1	Φ6*60
10	BM12-07-016	Knee lifter lever plate	1	
11	BM12-07-015A1	Thread tension releasing lever	1	
12	BM12-07-015A3	Screw	1	SM9/64" (3.57)*40/12
13	72T3-005D1a3	Set screw	1	SM15/64" (5.95)*28/7
14	BM12-07-014	Presser bar lifter pin	1	
15	BM12-07-013	Presser bar lifter	1	
16	22T6-008D3	Screw	1	SM11/64" (4.37)*40/12
17	BM12-07-012	Presser foot	1	
18	BM12-07-001	Presser bar	1	
19	BM12-07-007	Nut	1	SM11/64" (4.37)*40

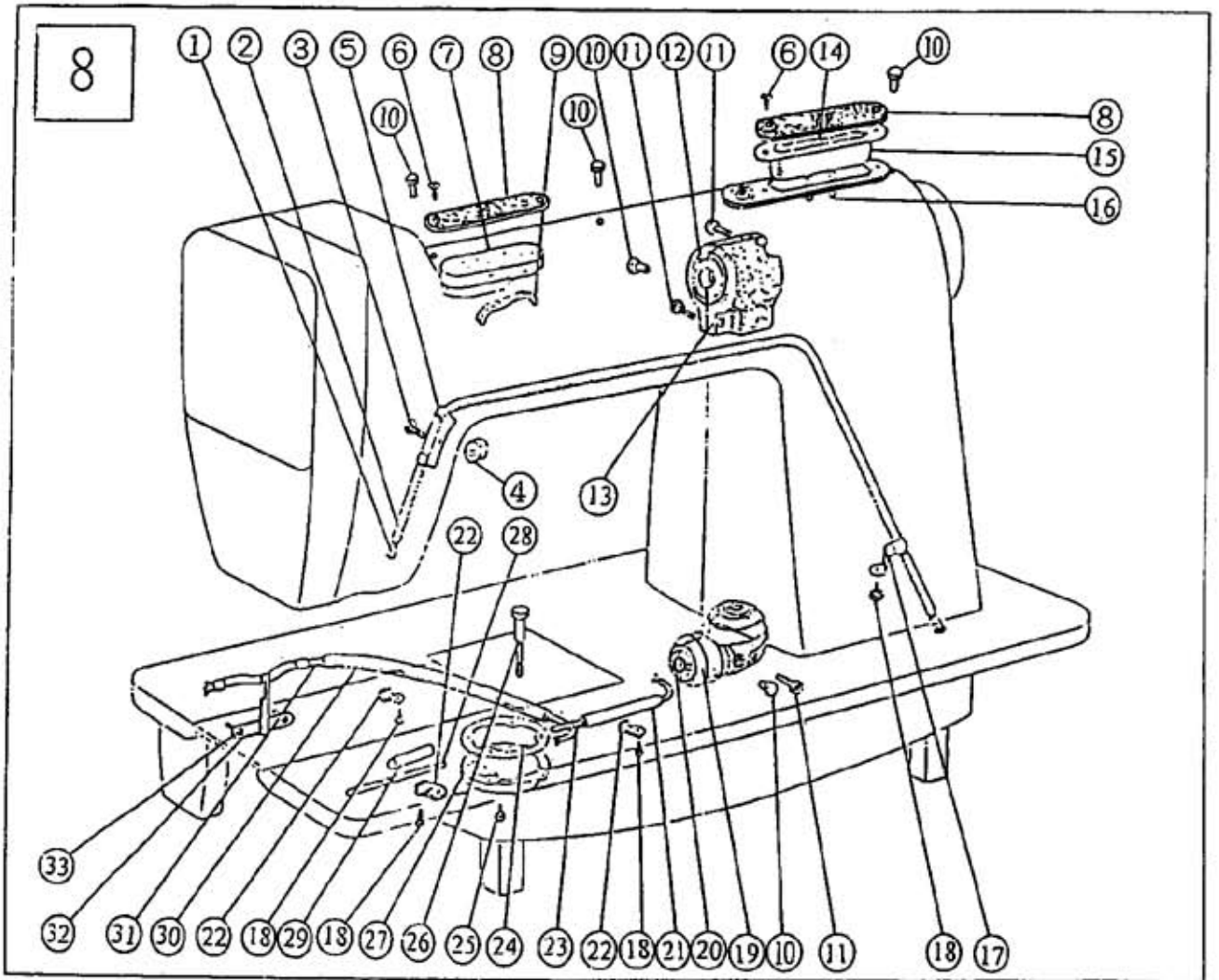
PRESSER FOOT MECHANISM

NO.	REF. NO	DESCRIPTION	PCS.	REMARKS
20	BM12-07-010	Presser bar lifter bracket	1	
21	72T6-001A6	Screw	2	SM3/16" (4.76)*28/15
22	BM12-07-011	Screw	1	SM3/16" (4.76)*32/6
23	BM02-08-014	Screw	1	SM3/16" (4.76)*28/10
24	BM12-07-006	Screw	1	SM11/64" (4.37)*40/10
25	BM12-07-007	Nut	1	SM11/64" (4.37)*40
26	BM12-07-005	Presser bar holder	1	
27	BM12-07-002	Presser regulating thumb screw	1	
28	BM12-07-003	Nut	1	
29	BM12-07-004	Presser spring	1	
30	BM12-07-008	Presser bar slider	1	
31	GB119	Pin	2	φ3*12
32	72T2-003	Screw	2	SM11/64" (4.37)*40/8
33	BM12-07-009	Presser bar holder guide	1	
34	72T3-005D1a3	Screw	1	SM15/64" (5.95)*28/7
35	BM12-01-021F3	Screw	1	
36	BM12-01-021F2	Pin	1	
37	BM12-01-021F4	Presser spring guide	2	
38	22T5-009	lifting presser spring	2	

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PRESSER FOOT MECHANISM

NO.	REF. NO	DESCRIPTION	PCS,	REMARKS
39	BMF2-01-021F1	Thread tension bracket	1	

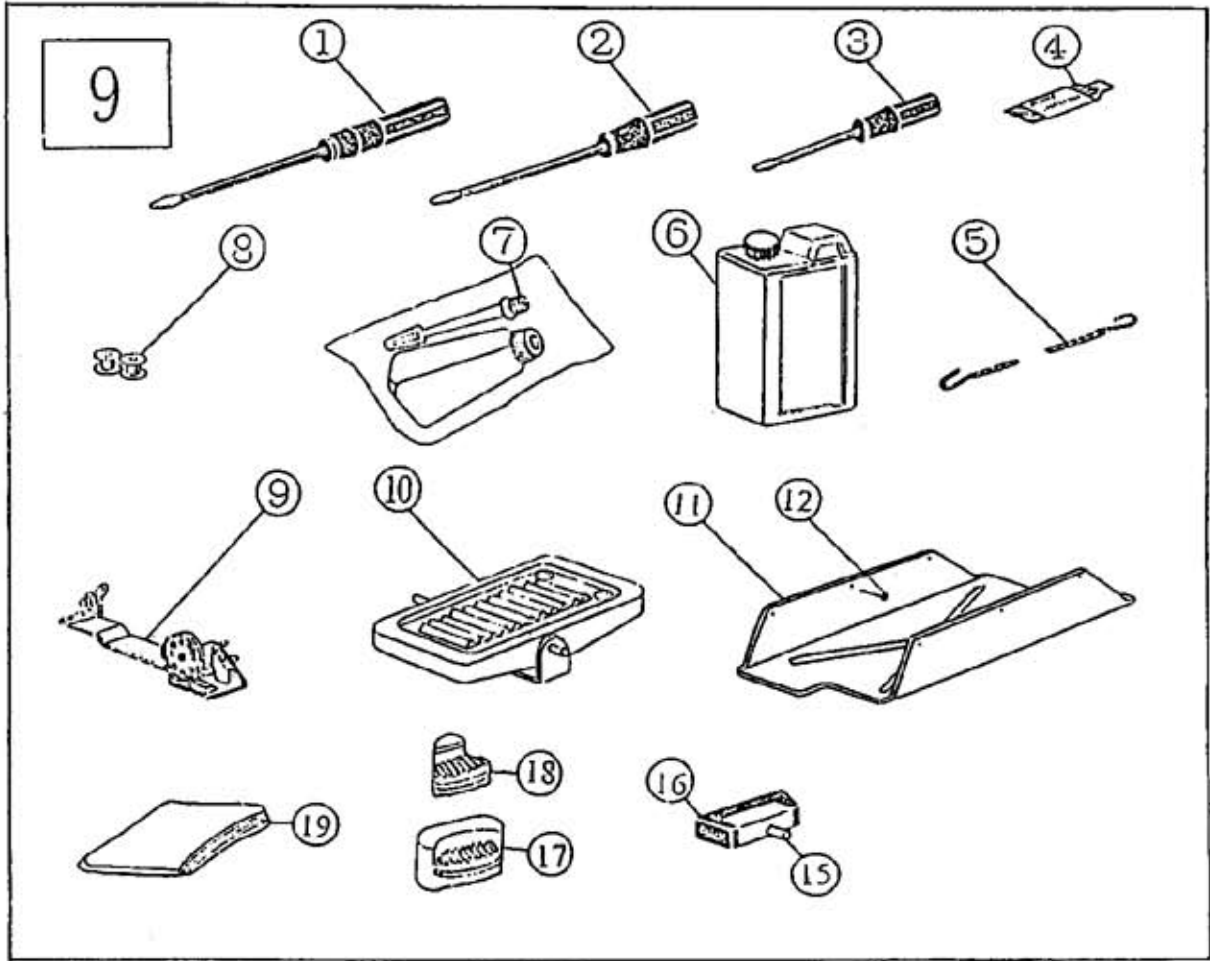


OIL LUBRICATION MECHANISM

NO.	REF. NO	DESCRIPTION	PCS.	REMARKS
1			1	ϕ 2.5*635
2		Oil wick	1	ϕ 3*620
3	GB65	Oil pipe	1	M4*25
4	GB52	Screw	1	M4
5		Nut	1	
6	BM12-09-001	Pipe holder	1	
7	22T1-003C6	Screw	4	SM9/64" (3.57)*40/6
8		Felt	1	70*20*10
9	BM12-09-002	Oil reservoir cover	2	
10		Oil wick	1	ϕ 2.5*100
11	72T1-011	Rubber plug	5	ϕ 5.7
12	BM12-09-006	Screw	3	SM15/64" (5.95)*28/15
13	BM12-09-005	Bevel gear box assy (left)	1	
14	BM12-09-004	Bevel gear box assy (right)	1	
15		Felt	2	50*15*8
16	BM12-09-003	Oil reservoir	1	
17		Oil wick	1	ϕ 2.5*150
18	BM12-09-007	Oil pipe holder (l)	1	
19	22T2-019	Set screw	4	SM11/64(4.37)*40/8
20	BM12-09-009	Bevel gear box assy (right)	1	

OIL LUBRICATION MECHANISM

NO.	REF. NO	DESCRIPTION	PCS.	REMARKS
20	BM12-09-008	Bevel gear box assy (left)	1	
21		Oil pipe	1	φ 3*255
22	BM12-09-010	Oil pipe holder (2)	3	
23		Oil wick	1	φ 2.5*270
24	BM12-09-012	Gasket	1	
25	72T1-016	Set screw	4	SM11/64" (4.37)*40/10
26	BM12-09-013	Oil gauge	1	
27	BM12-09-011	Cover	1	
28		Oil wick	1	φ 2.5*270
29		Oil pipe	1	φ 3*100
30		Oil pipe	1	φ 3*250
31		Oil pipe	1	φ 2.5*330
32	BM12-09-014	Oil wick	1	
33	72T2-003	Oil pipe holder	1	
		Screw	2	SM11/64" (4.37)*40/8



ACCESSORIES

NO.	REF. NO	DESCRIPTION	PCS.	REMARKS
1	72T9-007	Screw driver (large)	1	
2	72T9-020	Screw driver (medium)	1	
3	72T9-021	Screw driver (short)	1	
4		Needle	1	DD*1 25#
5		Chain regulator assy	1	6*2 L=450
	BM05-10-004	Chain guide	2	
6	22T9-017	Oil container	1	
7	22T9-011	Oiler	1	
8		Bobbin	4	
9	22T9-006D	Bobbin winber regulator assy	1	
10		Treadle plate regulator assy	1	210*115*35/16
11	BM12-09-015	Oil guard	1	
12	GB350	Round pin	6	L. 6*20
13				
14		Double-end wrench		
15	22T9-007F1	Hinge of machine head	2	
16	72T9-004C1	Rubber socket for hinge	2	
17	72T9-005	Rubber cushion (big)	2	
18	72T9-006	Rubber cushion (small)	2	
19	22T9-018	Vinyl cover	1	