ARTiSAN®

611-30 LA BB

Sewing Machines

Operators Manual
and
Spare Parts List

— INDEX —

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INFORMATION FOR ADJUSTMENT

2

SETTING UP THE MACHINE (Fig. 1)

Before setting up the machine on the table, attach the relative parts to the table.
(1) Stand and treadle (2) Motor (3) Oil pan (4) Hinge
(5) Machine head (6) Knee lifter (7) V belt
(8) Bobbin winder (9) Cotton stand (10) Prop

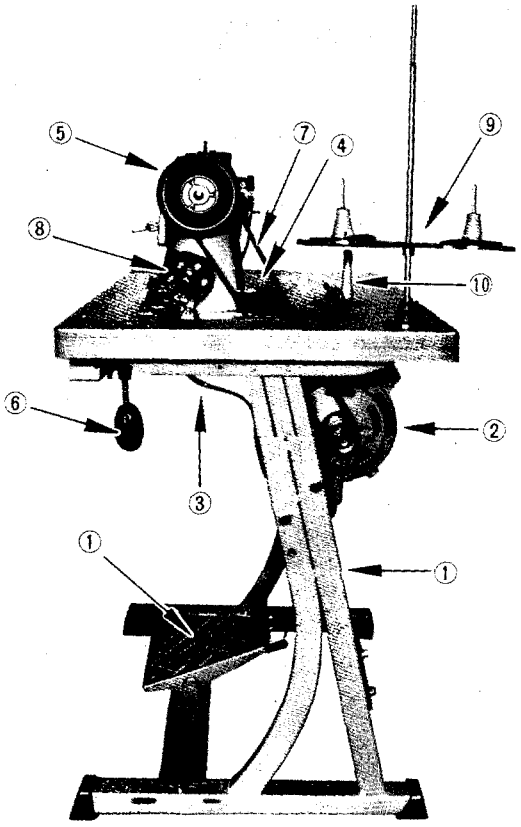

Fig. 1

BREAKING-IN & DIRECTION OF ROTATION

To assure durability and trouble-free operation, it is imperative that for the first several weeks of operation the maximum speed is held to no more than 2000 RPM in order to allow the parts to become properly broken in.
In operation the handwheel of the machine always turns toward the operator. To avoid tangled threads and jamming of the sewing hook, do not turn handwheel otherwise.

SPEED

Maximum operating speed after a break-in period is 2400 stitches per minute depending, of course, on the type of material being sewn, its thickness and that of the seams being crossed.

OILING

Do not operate the machine, even if only for testing, unless it has been properly oiled at every spot requiring lubrication.
The arrows on the following illustration indicate these spots.
(Fig. 2 ~ Fig. 6)
NOTE: During the breaking-in period a new machine should be oiled more frequently.

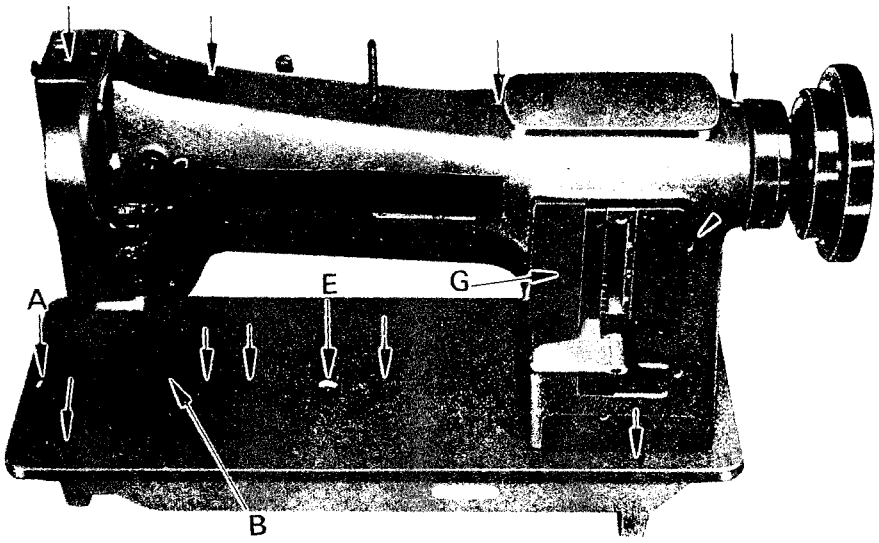

Fig. 2

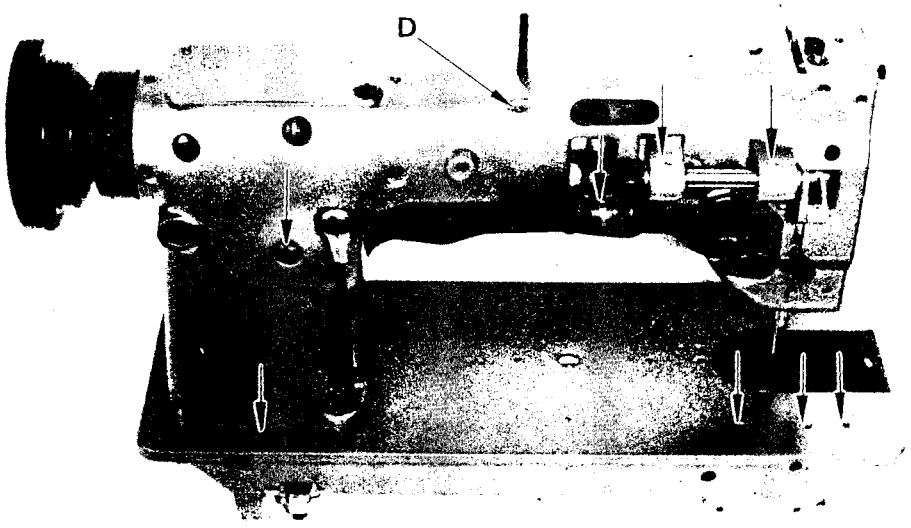

Fig. 3

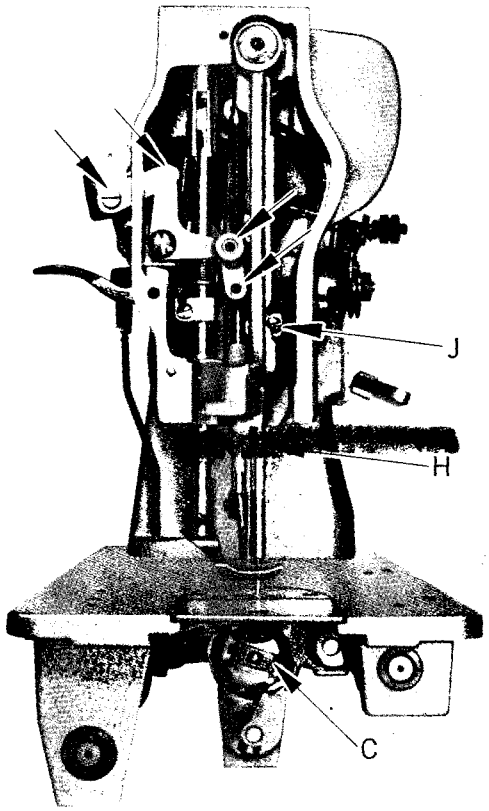

Fig. 4

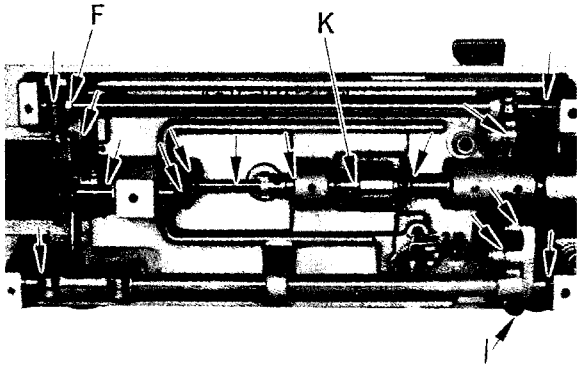

Fig. 5

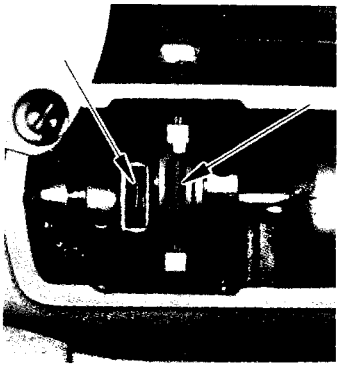

Fig. 6

NEEDLE (Fig. 7)

ARTISAN 611-25 is set up to use standard style DPx17. The size of the needle to be used should be determined by the size of the thread, which must pass freely through the eye of the needle.

HOW TO ATTACH THE NEEDLE

1. Turn the machine pulley over toward you until the needle bar ① moves up to its highest point.
2. Loosen the needle set screw ② and put the needle ③ up into the needle bar as deeply as it will go, with the long groove of the needle faces the left.
3. Tighten the needle set screw securely.

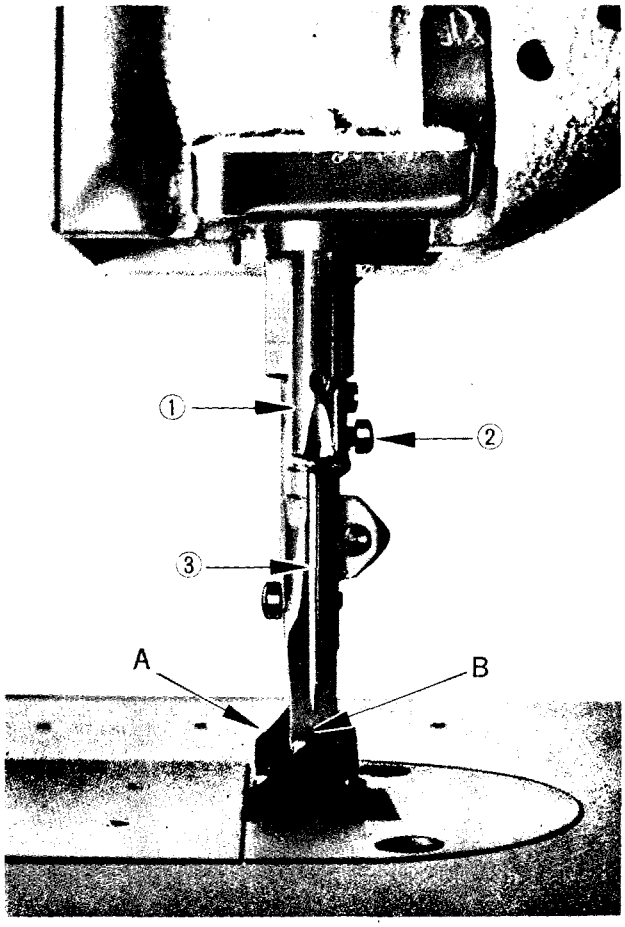

Fig. 7

TEREAD

Cotton, synthetic or silk thread can be used according to your purpose.

* Always use left twisted thread for upper (needle) thread, but you can use either right or left twisted thread for lower (bobbin) thread.

WINDING THE LOWER THREAD ON THE BOBBIN (Fig. 8)

1. Push a bobbin on the bobbin winder spindle ③ as far as it will go.
2. Pass the thread from the thread stand downward through the eye ① in the tension bracket, then between and around the back of the tension disc ②.
3. Bring the thread forward toward the bobbin and wind from below in clockwise direction several times around the bobbin.
4. Push the lever ④ toward the other side so that the pulley and V belt (⑦, Fig. 1) will engage and then start the machine.
5. The pulley will automatically be free from the belt and stopped after the bobbin is filled with thread.

THE ABOVE OPERATION CAN BE DONE WHILE SEWING.

ADJUSTMENT OF THE BOBBIN WINDER

1. IN CASE OF UNEVEN WINDING:
   If the thread does not wind evenly on the bobbin, loosen the screw ⑤ in the tension bracket and move the bracket to the right or to the left as may be required, then tighten the screw ⑤.
2. WINDING AMOUNT OF THREAD:
   Adjustment screw ⑥ can be turned in or out to increase or to decrease the amount of thread wound on the bobbin.
3. WINDING STRENGTH:
   Strength of the winding can be adjusted with the nut ⑦.

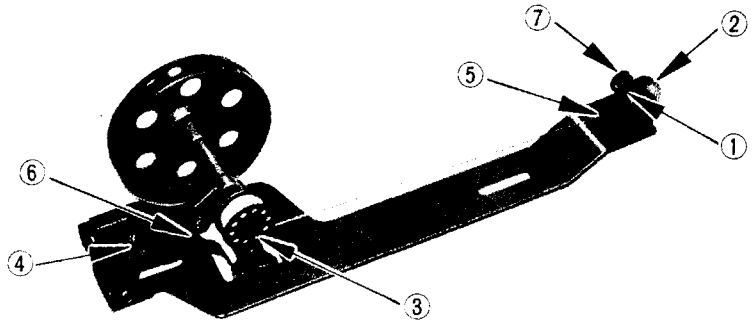

Fig. 8

REMOVING AND INSERTING THE BOBBIN

1. Lift the needle bar to its highest point, place the feed dog at this side in its travel turning the machine pulley, and open the slide plate (A, Fig. 2).
2. Pass left hand under table into opening on drip pan. With left thumb and index finger, open the hinged latch (C, Fig. 4). And pull bobbin case and bobbin from rotary hook. While the latch is held open, the bobbin will be retained in the bobbin case. Release of the latch and turning of the open side of the bobbin case downward will cause the bobbin to drop out.
3. Hold the bobbin between the thumb and the forefinger of your right hand and pull out a length of about 5cm of thread. Holding the bobbin case in your left hand turn the open side up and place the threaded bobbin into it. (Fig. 9)
4. With the right hand guide the thread into the slot in the edge of the bobbin case. Then pull the thread to the left, under the tension spring (①, Fig. 9) and into the delivery eye. In order to keep the bobbin from dropping out of the case when it is turned with the open side down, always keep the hinged latch (C, Fig. 4) at the front of the bobbin case open.
5. Take the threaded bobbin case by the latch (C, Fig. 4) and place it on the center stud of the bobbin case holder. Release latch and press bobbin case on to center stud until the latch catches the undercut thereon with a click that can be heard. Permit about 5cm of bobbin thread to hand down freely. Be sure to push the slide plate to the right before starting to sew.

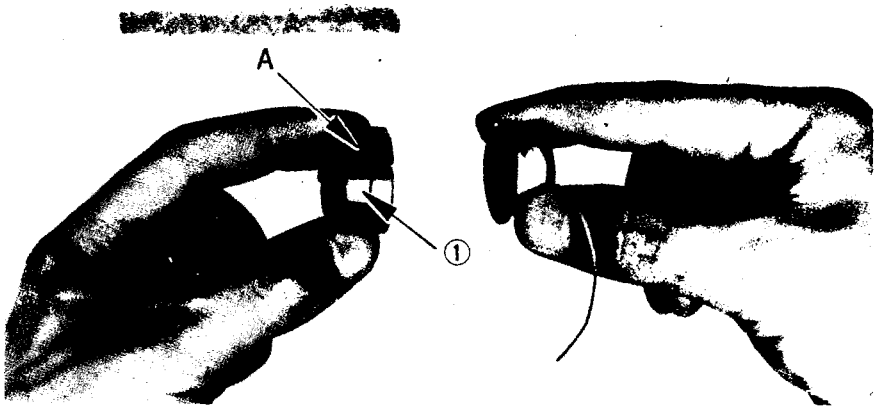

Fig. 9

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THREADING THE MACHINE (Fig. 10)

1. Raise the needle bar to its highest point and lead the thread from the thread stand the following order:
   From the thread stand lead the thread from back to front through the lower guide hole in pin 1 on top of the machine arm, then again from right to left through the upper guide hole in this pin. Pass thread in weaving fashion through the three holes in guide 2, and from right to left over and between the tension discs 3. Now pull thread downward and from right to left beneath and around thread controller 4, continue to pull thread upward against the pressure of the wire spring into the fork 5, in the thread controller. Guide upward through the point of controller discs 6, and thread guide 7, and from right to left through the eye in take-up lever 8, down through thread guide 7, again and then through 9, 10, 11, and from left to right through the eye of the needle 12.
2. After the above threading, hold the end of thread with your left hand, and turn the machine pulley with your right hand so that bobbin thread may be picked up by needle thread. And put their ends of thread back through under the presser foot for starting operation.

TO REMOVE THE WORK

Raise the needle bar to its highest point, lift the presser foot and draw the fabric back and to the left. Cut the ends of the threads a few centimeters.

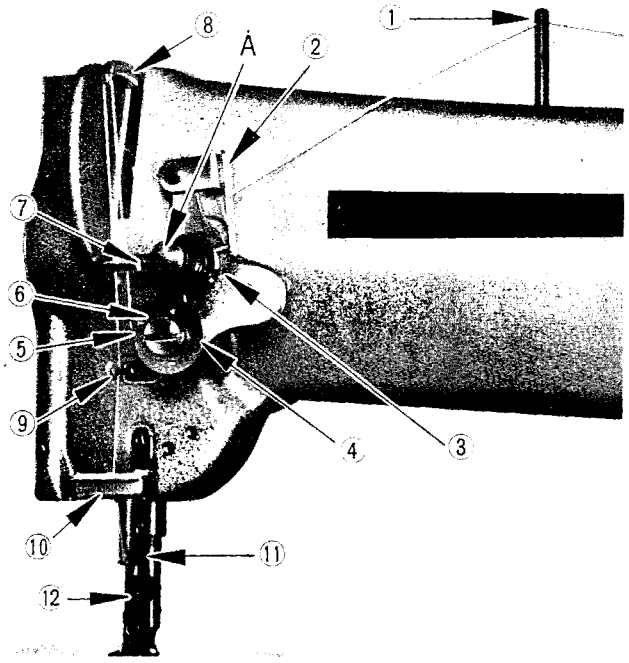


Fig. 10

REGULATING THE THREAD TENSIONS

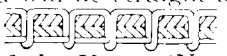
For ordinary stitching, the tension of the upper and the lower threads should be equal so as to lock both threads in the center of the material.

 ----- Perfect stitching

If the tension on either thread is stronger than on the other, imperfect stitching will be the result. If the tension on the upper thread is greater than that on the lower thread, it will lie straight along the upper surface of the material.

 ----- Tight tension of needle thread

If the tension on the lower thread is greater than that on the upper thread, the lower thread will lie straight along the underside of the material.

 ----- Loose tension of needle thread

1. **Tension of the Upper (Needle) thread:**
   Before adjusting the tension of the upper (needle) thread, be certain that the presser foot is let down and not in lifted position.
   To adjust tension, turn serrated nut (A, Fig. 10) on tension device to the right to increase tension and to the left if you desire to decrease it.
2. **Tension of the Lower (Bobbin) thread:** (Fig. 9)
   The lower (bobbin) thread tension is controlled by the larger screw "A"(Fig. 9) near the end of the spring at the outside of the bobbin case.
   Turning this screw to the right (clockwise) will increase the thread tension, while turning it to the left (counter-clockwise) will decrease it.

ADJUSTMENT OF THE PRESSURE ON THE MATERIAL (Fig. 3)

The pressure of the presser feet is adjusted by the screw (D, Fig. 3) with screw driver.
To increase the pressure, turn the screw to the right and to left if you desire to decrease it.

STITCH LENGTH ADJUSTMENT & REVERSING LEVER

The stitch length is changed by turning the serrated nut ① so that the reference mark on the collar ③ comes in line with the desire number of stitch length on the plate ②.

1. If you desire to decrease the stitch length, turn the serrated nut to the right.
2. To reverse sewing action, lift the lever ④ past "O" toward marking "R" on the plate ② until stopped.

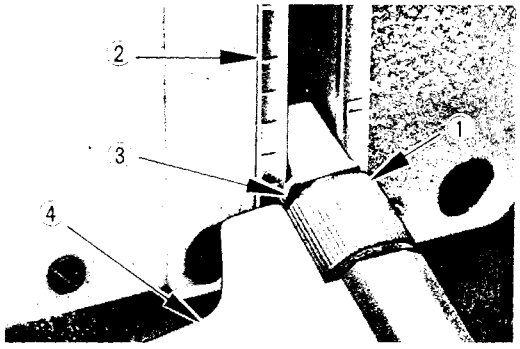


Fig. 12

ADJUSTING THE LIFT OF THE ALTERNATING PRESSER FEET

(Fig. 13)

The thickness of the material sewn should control the height of the lift of the alternating presser feet. The lift should be just enough for clearance of the material.

1. With normal adjustment both feed lift to equal height:
   To alter lift, loosen the wing nut① and move the link and stud assembly along the slot - move up to raise the feeding presser foot and push down to lower this foot. Tighten wing nut upon completion of adjustment.

However, some materials may require unequal height of lift.

2. When altering the lift of the lifting presser foot (A, Fig. 7) unequally against that of the vibrating presser foot (B, Fig. 7) or vice versa, see the instructions "ADJUSTING THE HEIGHT OF THE PRESSER FEET"

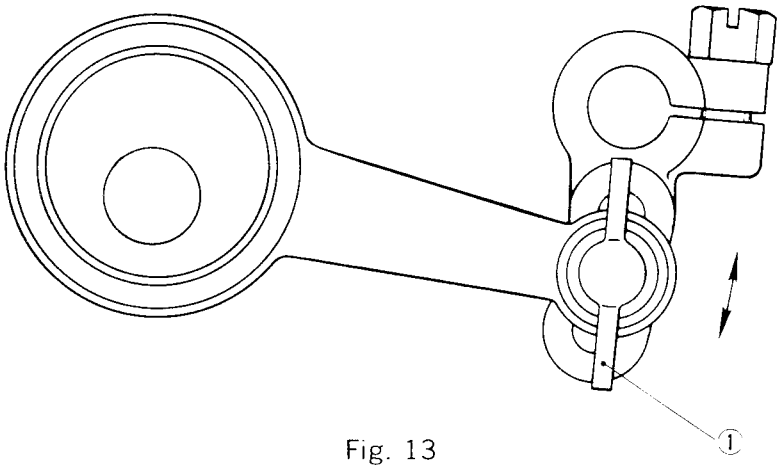


Fig. 13

HOW TO RE-SET THE SAFETY CLUTCH MECHANISM

The sewing hook and its mechanism are protected by a safety clutch.
If it should become necessary to re-engage the safety clutch, depress button (E, Fig. 2) in the bed plate of the machine. At the same time, turn machine pulley until the locking mechanism re-engages the drive shaft beneath the bed of the machine. Open bed slide plate and rock the machine pulley back and forth to remove any foreign matter which may have lodged itself in the hook. Do not use any sharp-edged tools, etc., lest the hook be damaged.

EXTRA SLOTTED NEEDLE PLATE (You will find this in accessories box.)

If you put this extra slotted needle plate, you can use this machine without a feeder for sewing leather, vinyls, etc. without visible marks.

INFORMATION FOR ADJUSTMENT

ADJUSTING THE HEIGHT OF THE FEED DOG

The maximum height of the feed dog (①, Fig. 14) from the surface of the needle plate (②, Fig. 14) is normally 1mm.

To adjust this height:

1. Lay down the machine head toward the other side, and turn the machine pulley so as to raise the feed dog to its highest point.
2. Loosen bell crank screw (F, Fig. 5) and adjust the height of the feeder by raising or lowering it.
3. Securely tighten the screw upon completion of adjustment.

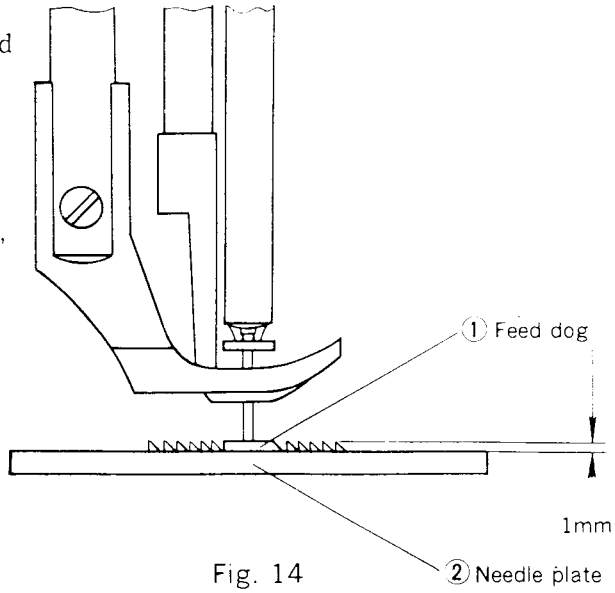


Fig. 14

RELATIVE POSITION OF THE FEEDER TO NEEDLE PLATE

1. Place the stitch length regulating lever (④, Fig. 12) on the "O" on the plate (②, Fig. 12)
2. Turn the machine pulley so as to raise the feed dog to its highest point.
3. Lay down the machine head toward the other side, and loosen the screw (I, Fig. 5)
4. Adjust to be 32.1mm from the edge of the needle plate to the center of the needle hole on the feed dog (see Fig. 15)
5. Securely tighten the screw.

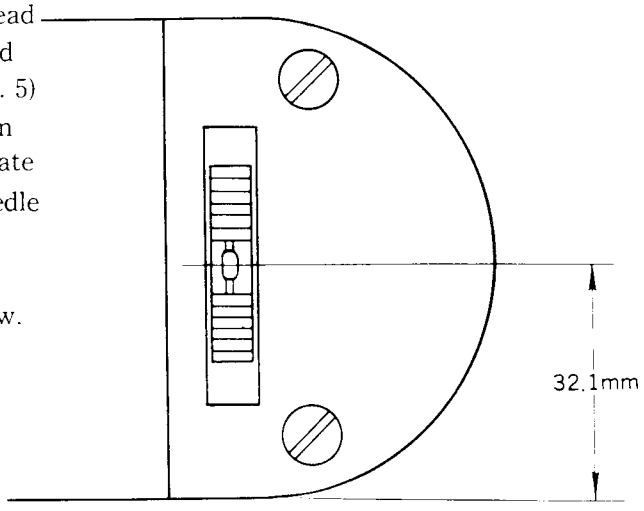


Fig. 15

12

THE POSITION OF THE NEEDLE AND THE NEEDLE HOLE OF THE FEEDER

Turning the machine pulley to lower slowly the needle bar, check whether the needle descends to the center of the needle hole of the feeder or not. (Please check again the needle is perfect one.)

If the needle does not enter into the center of the hole;

1. Remove the cover (G, Fig. 2) and loosen the screw (1, Fig. 16) slightly.
2. Holding the bottom of the needle bar rock frame (H, Fig. 4), move it as may be required to get the correct position to the feeder.
3. Tighten the screw and close the cover.

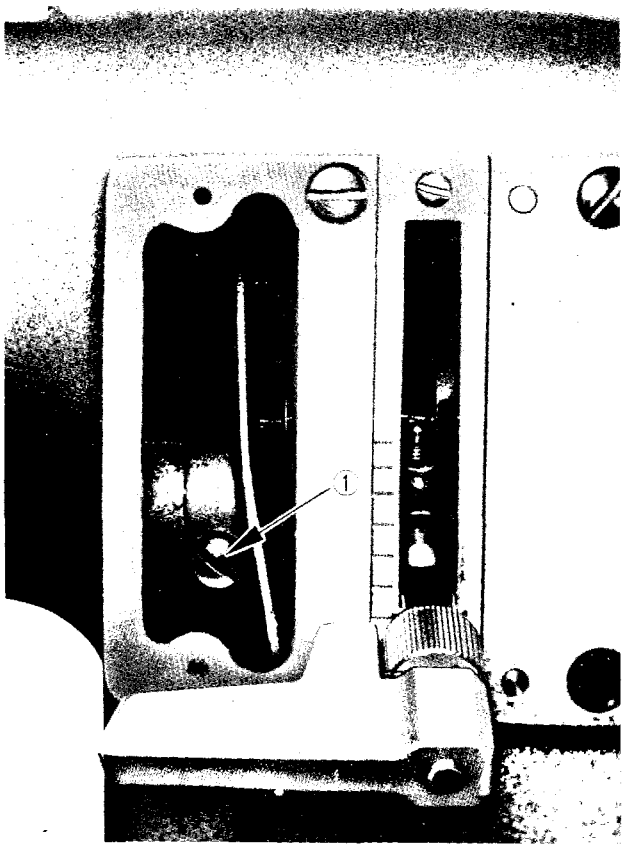


Fig. 16

TIMING THE NEEDLE WITH FEED DOG

It is important that the timing relationship between the needle on its downward stroke and the feed dog movement is maintained at all times. When the scarf of the needle on the downward stroke reaches the top surface of the feed dog, the feed dog movement must start.

When adjustment is required, use the following procedure to change the position of the cam (③, Fig. 17):

1. Open cover plate (①, Fig. 17) and loosen two screws (②, Fig. 17).
2. Normally put the arrow mark of the cam (③, Fig. 17) on the V ditch(⑨, Fig. 17) of arm shaft (⑧, Fig. 17).
3. As fine adjustment, turn the machine pulley to place the needle at 1mm up from its lowest point and pushing the stitch length regulating lever (④, Fig. 12) up and down, turn the cam (③, Fig. 17) and set this at the point both the needle and the feeder rest.

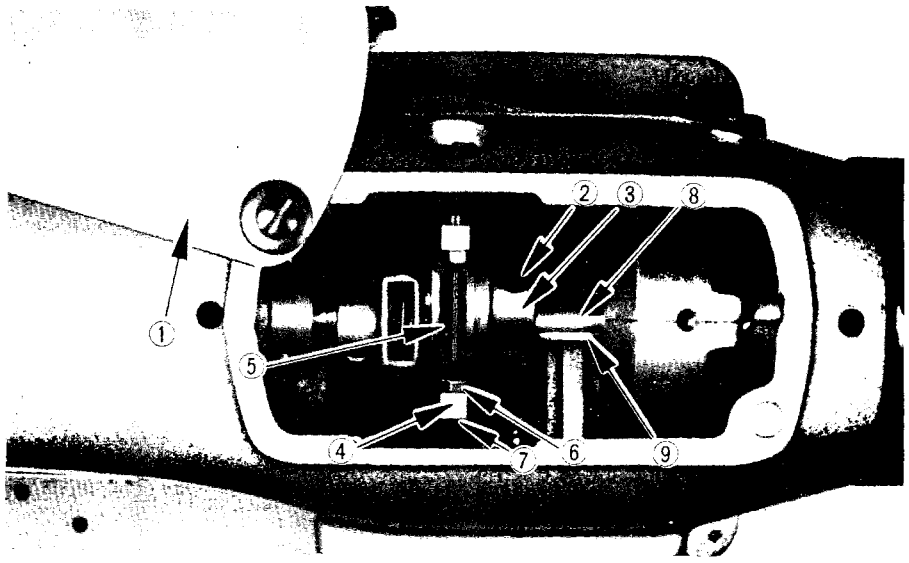


Fig. 17

ADJUSTING THE HEIGHT OF THE NEEDLE BAR (Fig. 18)

When the needle bar is at its highest point, normally the measurement between the surface of the needle plate and the upper end of the needle eye is 22.3mm. (Fig. 18)

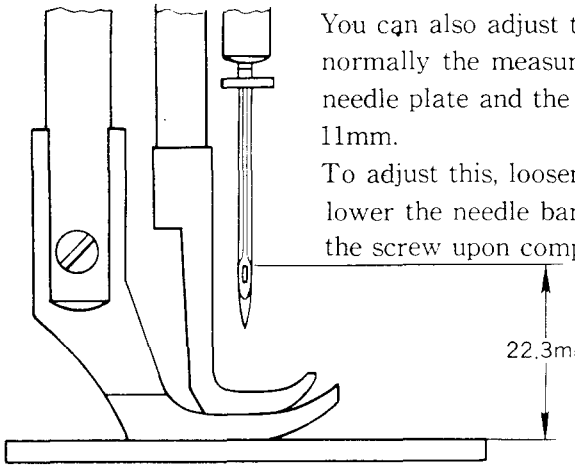


Fig. 18

You can also adjust this at its lowest point. In this case, normally the measurement between the surface of the needle plate and the upper end of the needle eye is 11mm.

To adjust this, loosen the screw (J, Fig. 4) and raise or lower the needle bar as may be required. Then, tighten the screw upon completion of adjustment.

NOTE: These measurements are approximate standard, accordingly, following final adjustments "TIMING BETWEEN THE HOOK AND THE NEEDLE" are recommended.

TIMING BETWEEN THE HOOK AND THE NEEDLE (Fig. 19)

After setting the needle bar height, set stitch length to minimum, turn the machine pulley toward you until the needle bar reaches its lowest point.

Continue turning and allow the needle bar to rise about 2mm while on its upward stroke. With needle bar in this position, the point of the sewing hook should be at the center of the needle, and normally, the measurement between the hook point and the upper end of the needle eye should be 2.4mm, further the clearance between the hook point and the needle hollow should be about 0.05 to 0.1mm.

1. If the sewing hook should not be timed correctly, loosen the three set screw (K, Fig. 5). Turn the hook shaft to align the hook point with the center of the needle. Re-tighten the three set screws and re-check the timing of the sewing hook.
2. To adjust the clearance between the hook point and the needle hollow, loosen the two screws (①, Fig. 20) and move the hook to the right or to the left as may require. Please note one of the two screws is placed on the V ditch of hook shaft. Therefore, keep the screw on V ditch during adjustment. Re-tighten the screws.

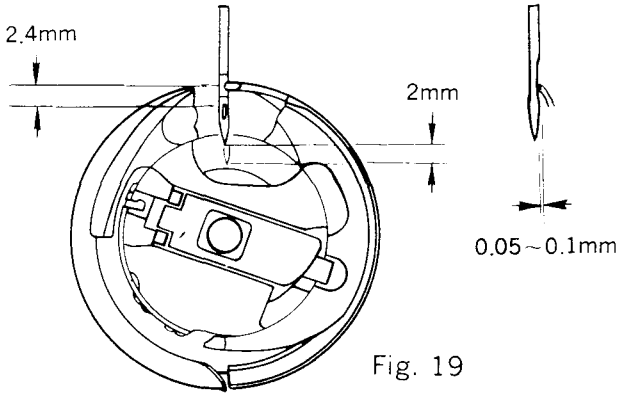


Fig. 19

ADJUSTMENT OF BOBBIN CASE OPENER

(THREAD RELEASE FINGER)

The bobbin case opener facilitates the passage of the needle thread loop by slightly nudging the bobbin case holder creating a slight rotating movement of same. This movement at that very instant opens a clearance gap between the notch on the bobbin case holder and the tab of the hook retainer permitting the needle thread loop to be drawn easily through the gap.

I) Clearance between the opener and projection of hook (Fig. 20 and 21):

1. Loosen the screw (②, Fig. 20)
2. Adjust the clearance between projection of hook (①, Fig. 21) and the opener (②, Fig. 21) by means of movement of thread releasing shaft bushing (③, Fig. 20) to the right or to the left as may be required. The standard clearance between the two parts is 0.8mm as shown Fig. 21.
3. Tighten the screw (②, Fig. 20) securely.

II) Position of the opener cam:

Place the one of screws (④, Fig. 20) which is indicated by "S" on V ditch of the hook shaft.

III) Adjustment of operation: (Fig. 20 and 22)

1. Turn the machine pulley until the opener (①, Fig. 22) presses the projection of hook (②, Fig. 22) extremely on its travel.
2. Press the opener to the projection of hook and make the right side clearance between the notch on the bobbin case holder and the tab of the hook retainer (③, Fig. 22) 0.2mm as shown Fig. 22.
3. This adjustment can be done by loosening the screw (⑤, Fig. 20).

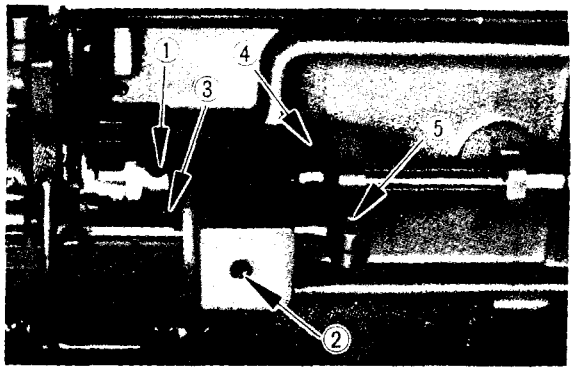


Fig. 20

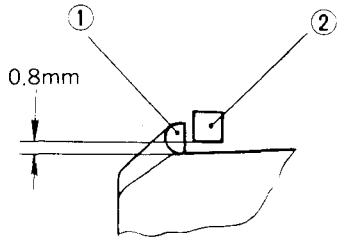


Fig. 21

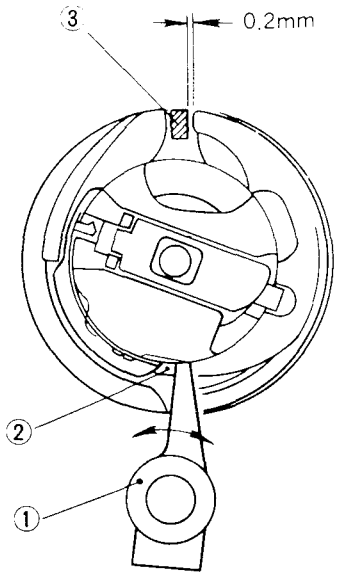


Fig. 22

ADJUSTING THE HEIGHT OF THE PRESSER FEET

1. **Adjustment by the presser bar lifter:**
   Loosen the screw (①, Fig. 23) sufficiently, raise the presser bar lifter and loosen the set screw (②, Fig. 23). Move the lifting presser foot (A, Fig. 7) up or down as may be required so as to get the correct height and tighten the screws.
2. **Adjusting the lift of alternating presser feet:**
   If the height of the lifting presser foot changes, the momentums of the lifting and vibrating presser foot vary, thus the height of the vibrating presser foot must be adjusted.
   To adjust this, lower the presser bar lifter, holding the vibrating presser foot(B, Fig. 7) and loosen the hexagon screw (③, Fig. 23) and move the presser foot up or down as may be required. After setting the position, tighten the screw.

TIMING OF THE VIBRATING PRESSER FOOT

This is the normal timing when turn the machine pulley toward you, after lowering the presser bar lifter, the vibrating presser foot should reach the feeder earlier than the needle eye comes to, and when the needle raises, the vibrating presser foot should leave the feeder after the needle eye has left the feeder.
This is due to the reason that the vibrating presser foot must tightly hold the goods while the needle is passing the goods for avoiding irregular stitches.
To adjust this, set the lift of the alternating presser feet to equal, loosen the two screws (④, Fig. 23) and adjust the rotating position of the cam (⑤, Fig. 23) faster or slower as may be desired, and tighten the screws.

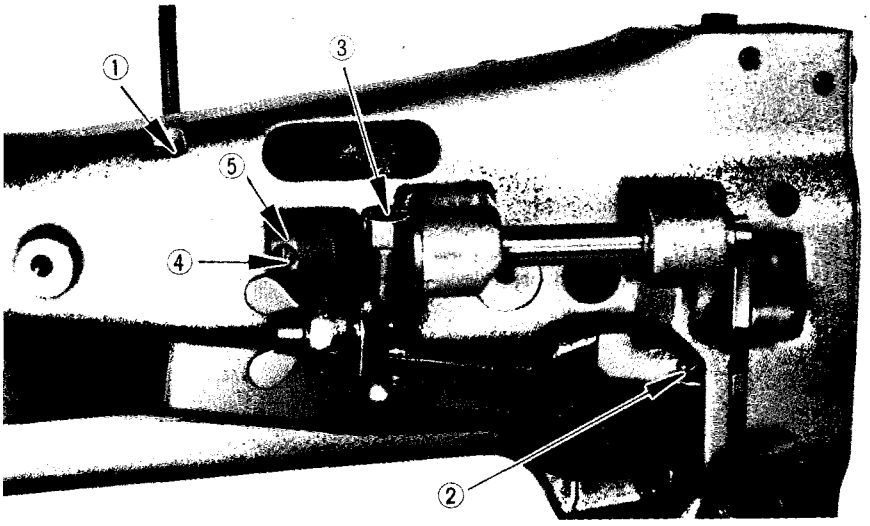


Fig. 23

ADJUSTMENT OF THE CLEARANCE BETWEEN FEED FORKED CONNECTION AND FEED FORK COLLAR

Incorrect clearance between the fork (4, Fig. 17) of feed forked connection and feed fork collar (5, Fig. 17) will bring irregular stitch length or overheating, etc. To ajust this, open the cover plate (1, Fig. 17).

1. To increase the clearance, loosen the screw (7, Fig. 17) and turn the screw (6, Fig. 17) to the left or counter-clockwise.
2. To decrease the clearance, loosen the screw (6, Fig. 17) and turn the screw (7, Fig. 17) to the right or clockwise.

This adjustment should be done with turning the machine pulley toward you to get correct clearance.

Upon completion of adjustment, tighten the screw which is loosened to touch the feed fork.

ADJUSTMENT OF SPRING TENSION OF SAFETY CLUTCH (Fig. 25)

The sewing hook and its mechanism are protected by a safety clutch. If it should become necessary to adjust the spring tension, use the following procedure:

1. Depress the button (E, Fig. 2) in the bed plate of the machine with your left hand. At the same time turn the machine pulley strongly so that the safety clutch disengages.
2. Lay down the machine head toward the other side. Hold the safety clutch (left) ① and turn the safety clutch (right) ② until you can see the screw ④ through the hole ③
3. To strengthen the tension of spring ⑤, turn the screw ④ to the right, while to lighten the tension, turn the screw to the left.
4. Upon completion of adjustment, depress the button (E, Fig. 2). At the same time turn the machine pulley until the safety clutch re-engages.

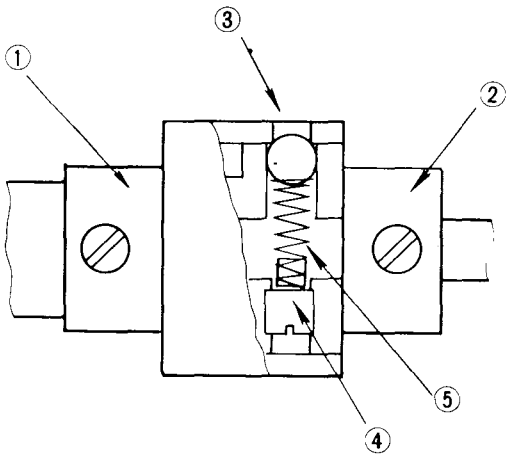


Fig. 25

ADJUSTING THE THREAD CONTROLLER SPRING

Normally, the thread controller spring (①, Fig. 24) should hold slack of the upper thread until the needle reaches to the goods, and it should pause while raising of the needle and passing of the upper thread through the bobbin case.

I) For more controller action on the thread:

Loosen the stop screw (②, Fig. 24), move the stop (③, Fig. 24) to the right (For less action, move it to the left). Tighten the screw.

II) To adjust the tension of the spring:

Loosen the serrated nut (④, Fig. 24) and the screw (⑤, Fig. 24).

Turn the tension stud (⑥, Fig. 24) slightly to the left to strengthen the tension (to lighten the tension, turn to the right) with a screw driver. Tighten the screw and nut upon completion of adjustment.

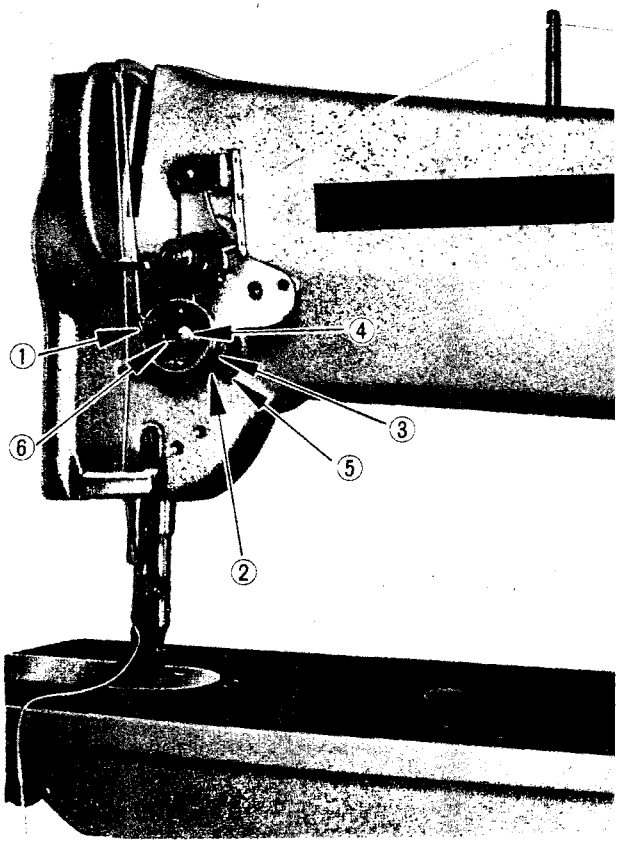


Fig. 24

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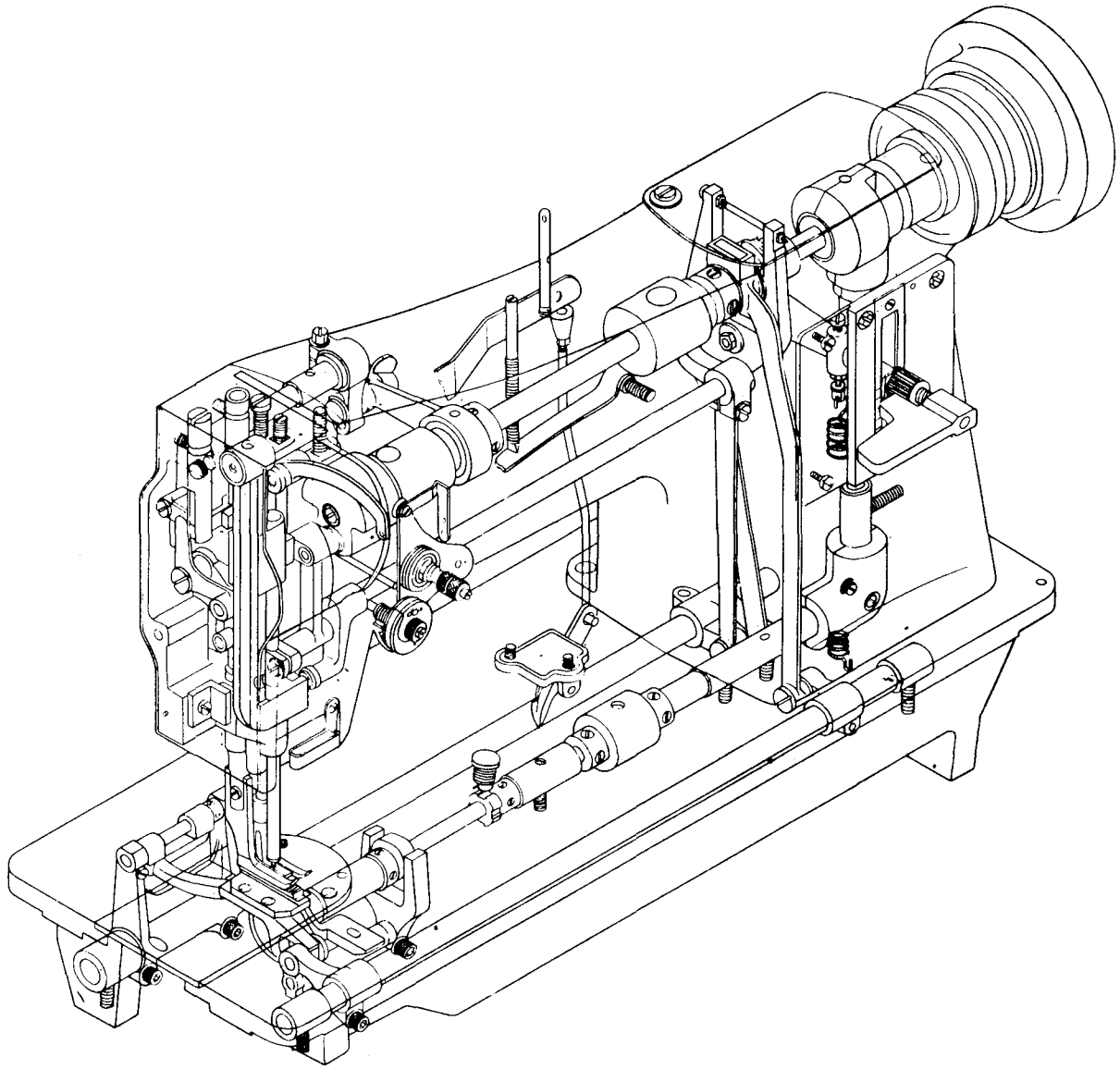
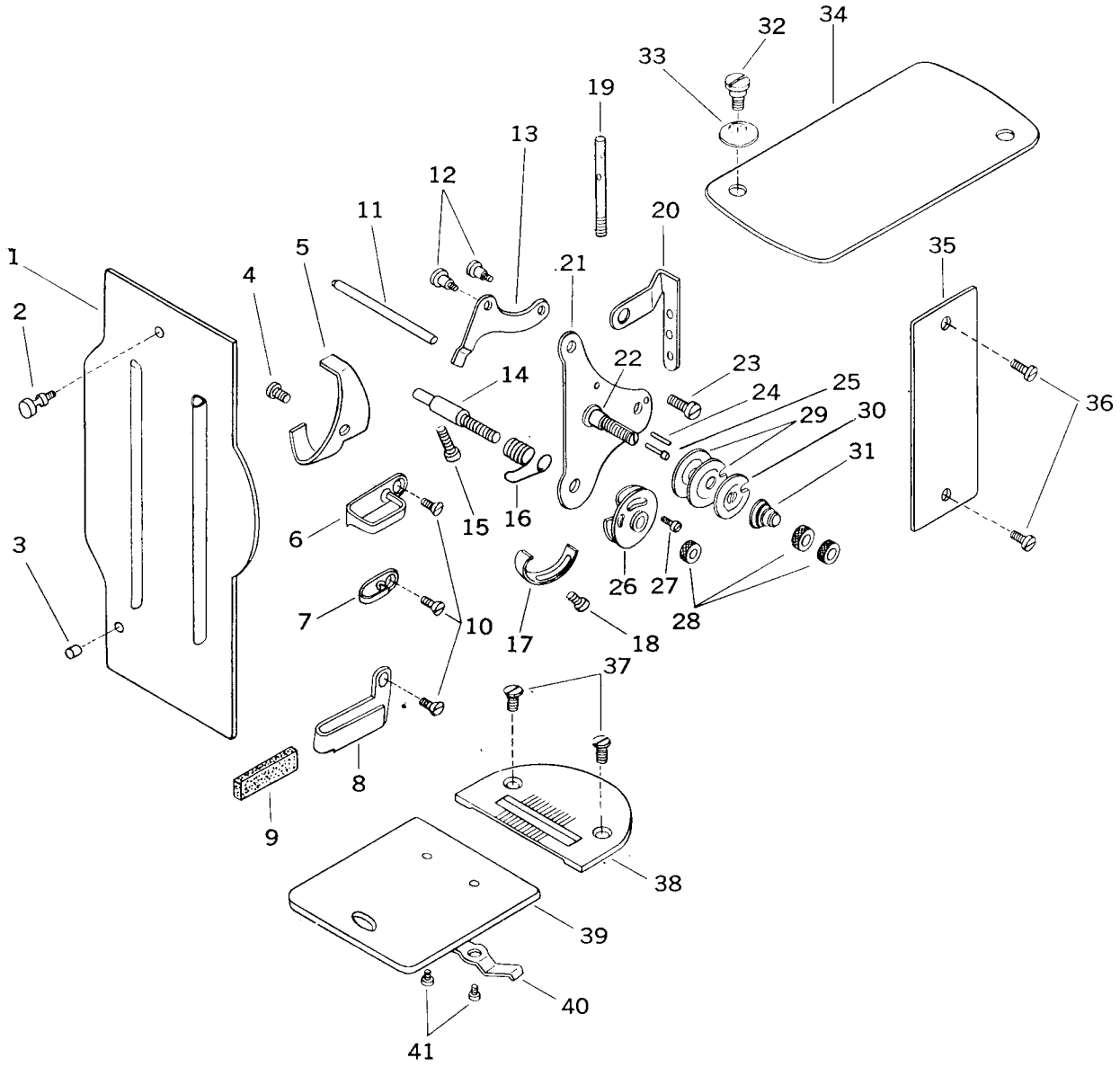


2 THREAD TENSION, GUIDE, NEEDLE PLATE

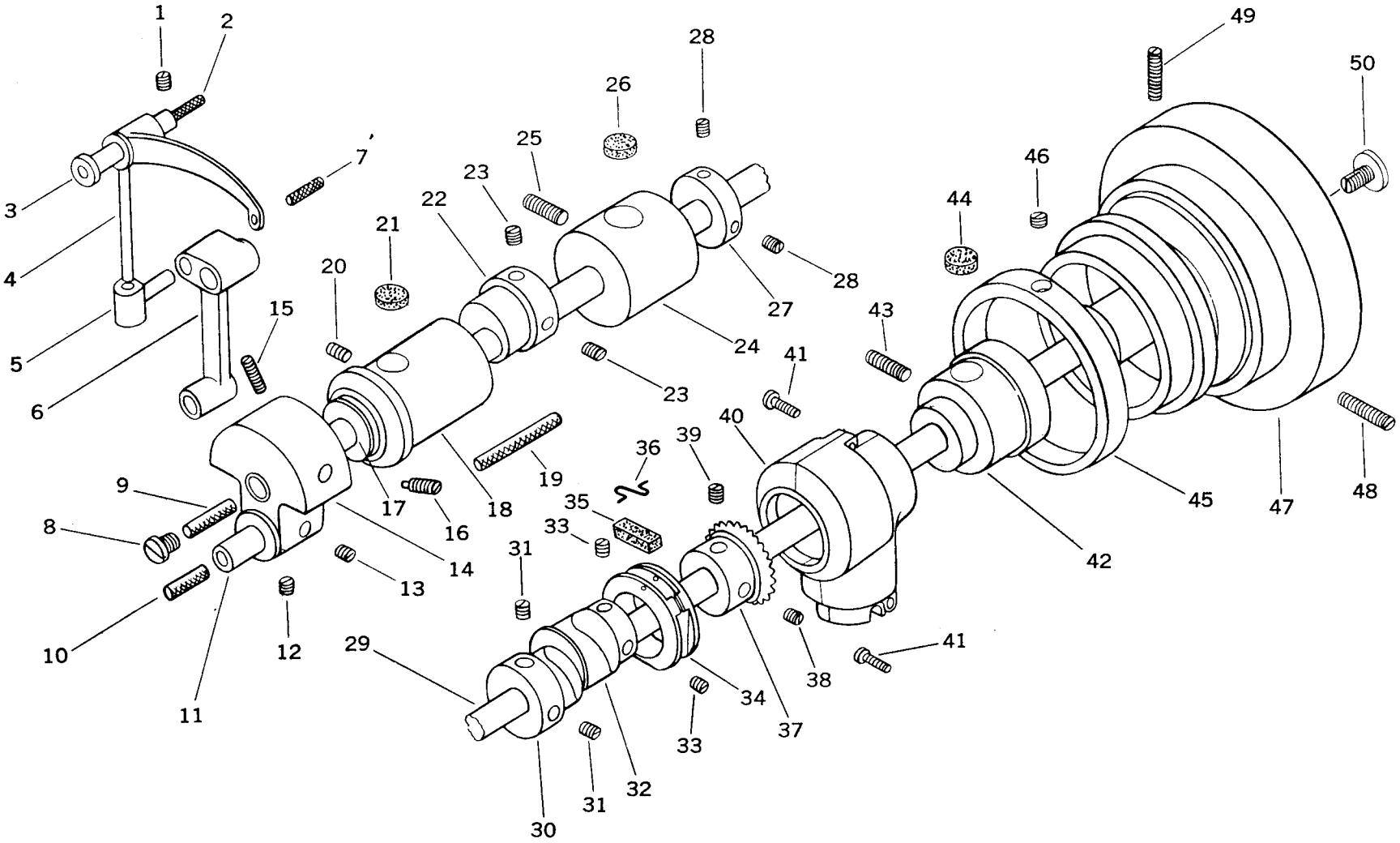


THREAD TENSION, GUIDE, NEEDLE PLATE

Fig. No.	Parts No.	Quantity	Name of Parts
1	10698	1	Face plate
2	10699	1	Face plate set screw
3	10700	1	Face plate stopper pin
4	10650	1	Screw for #10551
5	10551	1	Needle bar connecting link oil guard
6	10682	1	Thread guide (upper)
7	10683	1	Thread guide (middle)
8	10759	1	Thread guige (lower)
9	10760	1	Felt for thread guide
10	10685	3	Thread guide screw
11	10720	1	Tension release lever rod
12	10679	2	Tension release lever screw
13	10678	1	Tension release lever
14	10792	1	Thread controller stud
15	10545	1	Tension stud set screw
16	10689	1	Thread controller spring
17	10690	1	Thread controller spring stop
18	10650	1	Set screw for #10690
19	10709	1	Spool pin
20	15062	1	Thread retainer
21	10675	1	Tension bracket

Fig. No.	Parts No.	Quantity	Name of Parts
22	10789	1	Tension stud
23	15055	1	Set screw for #10675
24	10791	1	Tension bracket pin
25	10793	1	Tension release plunger
26	10694	1	Thread controller disc
27	10695	1	Thread controller disc screw
28	10697	3	Tension thumb nut
29	10691	2	Thread disc
30	10692	1	Tension release washer
31	10693	1	Tension release spring
32	10704	1	Arm cap screw
33	10703	1	Arm cap screw washer
34	18004	1	Arm cap
35	18005	1	Arm side cover
36	8100	2	Set screw for #18005
37	6031	2	Needle plate set screw
38	18030	1	Needle plate
39	18032	1	Bed slide
40	6034	1	Bed slide spring
41	6035	2	Set screw for #6034

4 ARM SHAFT, TAKE UP LEVER

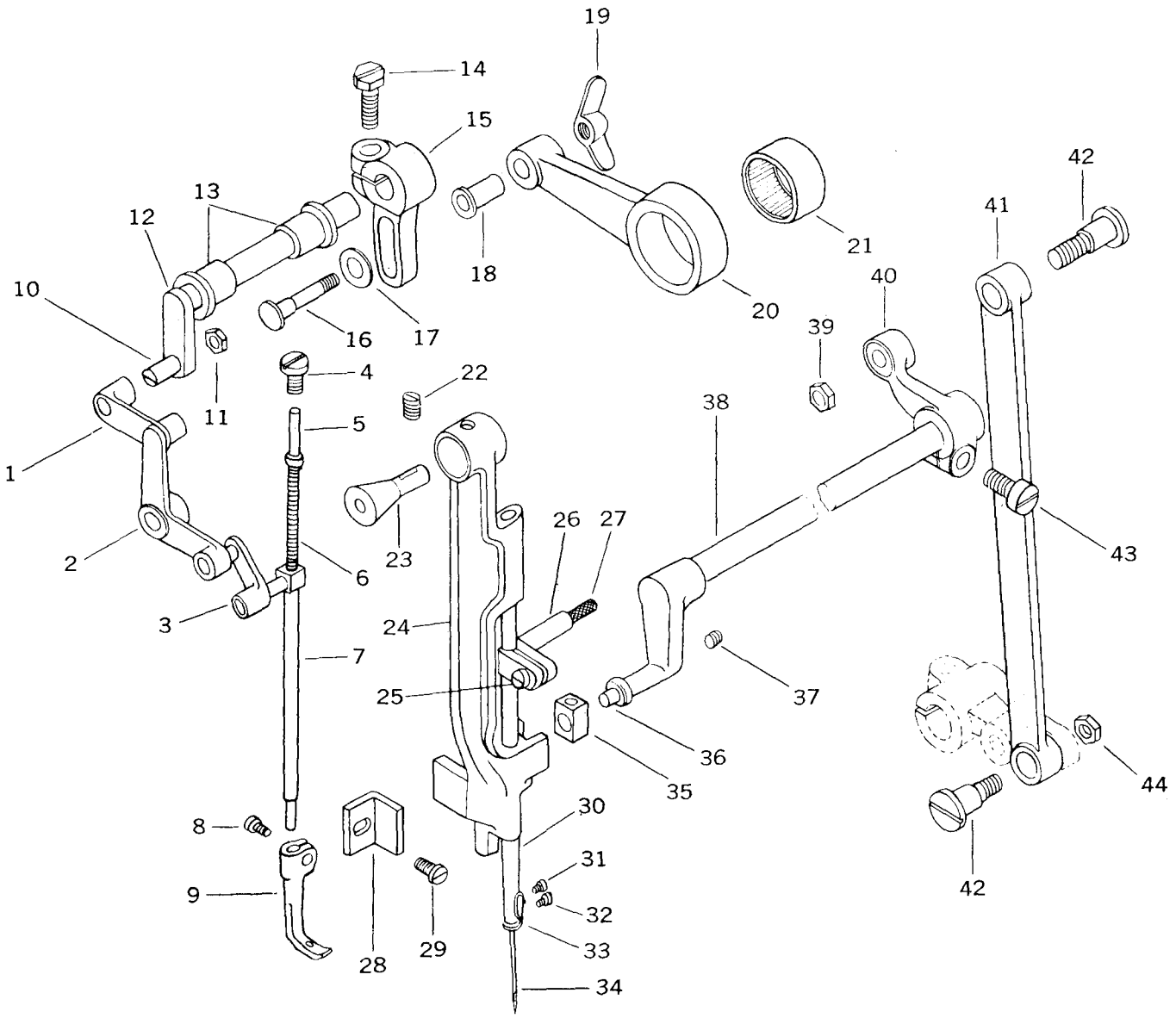


ARM SHAFT, TAKE UP LEVER 5

Fig. No.	Parts No.	Quantity	Name of Parts
1	10571	1	Set screw for #10527
2	10726	1	Oil wick for #10527
3	10527	1	Take up lever hinged stud
4	18003	1	Thread take up lever
5	15026	1	Take up lever driving stud
6	10528	1	Needle bar connecting link
7	10728	1	Oil wick for #15026
8	10506	1	Arm shaft oil packing stop screw
9	10724	1	Oiling wick for arm shaft
10	10726	1	Oiling wick for #10523
11	10523	1	Needle bar connecting link stud
12	10764	1	Set screw (B) for #10523
13	10524	1	Set screw (A) for #10523
14	10520	1	Needle bar crank
15	10522	1	Screw (B) for #10520
16	10521	1	Screw (A) for #10520
17	10563	1	Arm shaft bushing (front) washer
18	18006	1	Arm shaft bushing (front)
19	10729	1	Oil wick for #18006
20	10522	1	Set screw for #18006
21	10725	2	Oiling felt for #18006
22	10771	1	Lifting eccentric
23	10566	2	Screw for #10771
24	18008	1	Arm shaft bushing (middle)
25	10571	1	Set screw for #18008

Fig. No.	Parts No.	Quantity	Name of Parts
26	10725	1	Oiling felt for #18008
27	17014	1	Arm shaft bushing collar
28	10766	2	Set screw for #17014
29	17011	1	Arm shaft
30	18020	1	Feed lifting cam
31	10766	2	Set screw for #18020
32	18009	1	Feed driving eccentric
33	10766	2	Set screw for #18009
34	17040	1	Feed fork collar
35	17041	1	Oiling felt for #17040
36	10723	1	Oiling felt presser pin
37	17017	1	Arm shaft gear (spiral)
38	17018	1	Set screw (A) for #17017
39	17019	1	Set screw (B) for #17017
40	17015	1	Gear cover (upper)
41	17016	2	Set screw for #17015
42	17013	1	Arm shaft bushing (rear)
43	10571	1	Set screw for #17013
44	13081	1	Oiling felt for #17013
45	13423-B	1	Stitch length indicator
46	10566	1	Set screw for #13423-B
47	10504	1	Balance wheel
48	10576	1	Set screw (A) for #10504
49	10579	1	Set screw (B) for #10504
50	10577	1	Balance wheel adjusting screw

6 NEEDLE BAR, FEEDING MECHANISM



NEEDLE BAR, FEEDING MECHANISM 7

Fig. No.	Parts No.	Quantity	Name of Parts
1	10557	1	Lifting bell crank link
2	10558	1	Lifting bell crank
3	10556	1	Vibrating presser bar connecting link
4	15060	1	Screw for #10555
5	10553	1	Vibrating presser bar extension
6	10554	1	Vibrating presser bar extension spring
7	10555	1	Vibrating presser bar
8	10662	1	Vibrating presser foot pinch screw
9	10795	1	Vibrating presser foot
10	10519	1	Screw for #10515
11	10517	1	Nut for #10519
12	10515	1	Lifting rock shaft
13	10514	2	Lifting rock shaft bushing
14	10754	1	Clamp screw for #10751
15	10751	1	Lifting eccentric connecting crank
16	10775	1	Screw for #10774
17	10703	1	Washer for #10774
18	10774	1	Lifting eccentric connecting collar
19	10776	1	Wing nut for #10772
20	10772	1	Lifting eccentric connection
21	10773	1	Needle bearing for #10772
22	10525	1	Screw for #10536

Fig. No.	Parts No.	Quantity	Name of Parts
23	20103	1	Needle bar rock frame hinged stud
24	10536	1	Needle bar rock frame
25	10532	1	Set screw for #10531
26	10531	1	Needle bar connecting stud
27	10726	1	Oil wick for #10531
28	10560	1	Needle bar rock frame position bracket
29	10561	1	Set screw for #10560
30	10530	1	Needle bar
31	10534	1	Set screw for #10533
32	10535	1	Needle set screw
33	10533	1	Needle bar thread guide
34	6332	1	Needle DPx17 #22
35	10582	1	Needle bar rock frame slide block
36	10580	1	Needle bar rock frame slide block stud
37	10581	1	Screw for #17048
38	17048	1	Needle bar rock frame rock shaft
39	6026	1	Nut (upper) for #18017
40	18016	1	Needle bar rock frame rock shaft crank
41	18017	1	Needle bar rock frame rock shaft crank connection
42	18018	2	Hinge screw for #18017
43	10519	1	Set screw for #18016
44	8105	1	Nut for #18018

8 PRESSER BAR

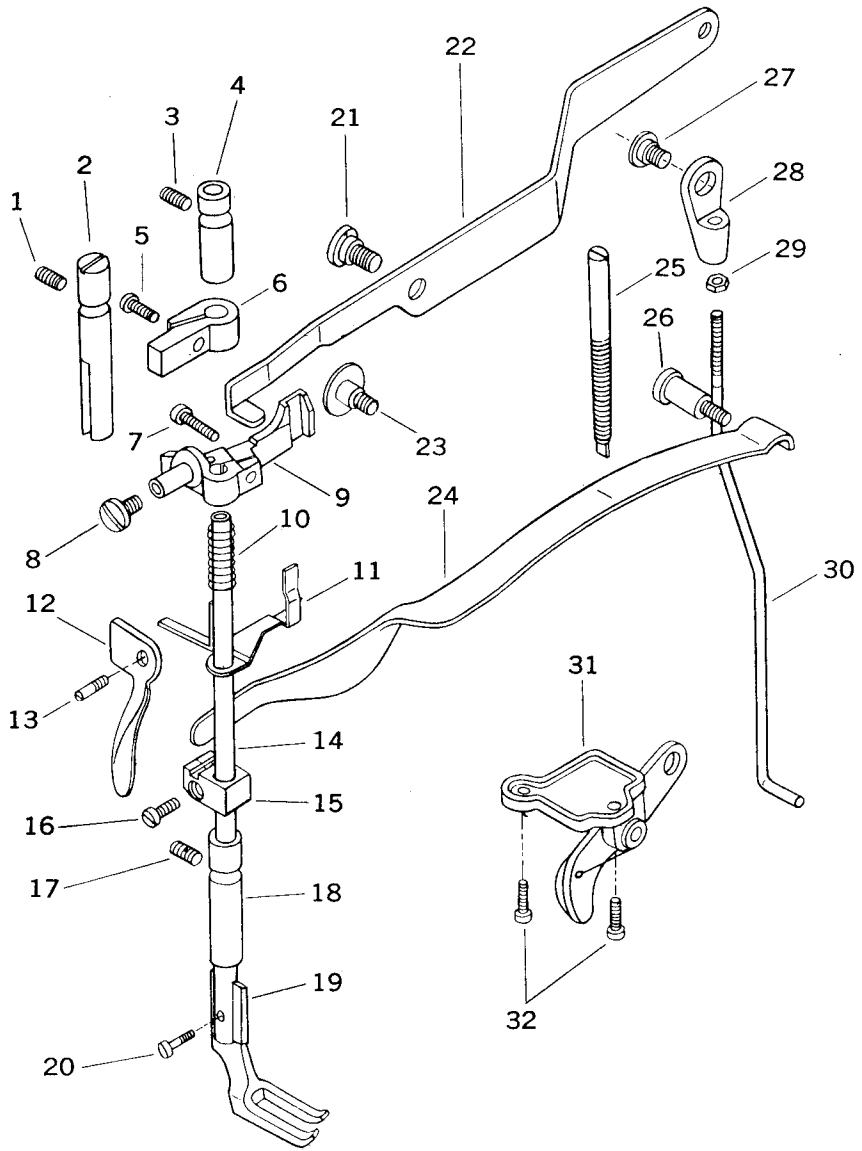


Fig. No.	Parts No.	Quantity	Name of Parts
1	10761	1	Set screw for #10543
2	10543	1	Presser bar position guide
3	10761	1	Set screw for #10538
4	10538	1	Presser bar bushing (upper)
5	10662	1	Pinch screw for #10543
6	10541	1	Presser bar position guide bracket
7	10545	1	Screw for #10544
8	10559	1	Set screw for #10558
9	10544	1	Presser bar lifting bracket
10	10547	1	Tension release spring
11	10546	1	Tension release slide
12	10659	1	Presser bar lifter
13	10660	1	Hinge screw for #10659
14	10540	1	Presser bar
15	10549	1	Presser bar spring bracket
16	10532	1	Pinch screw for #10549

Fig. No.	Parts. No.	Quantity	Name of Parts
17	10761	1	Set screw for #10531
18	10531	1	Presser bar bushing (lower)
19	10796	1	Lifting presser foot
20	10664	1	Pinch screw for #10796
21	10712	1	Set screw for #18080
22	18080	1	Knee lifter lifting lever
23	10548	1	Presser bar lifting bracket guide screw
24	10705	1	Presser bar spring (flat)
25	11156	1	Presser bar spring (flat) regulating screw
26	10706	1	Presser bar spring (flat) supporting screw
27	6384	1	Hinge screw for #6359
28	6359	1	Knee lifter lifting lever connecting rod joint
29	6360	1	Knee lifter lifting lever connecting rod screw
30	18081	1	Knee lifter lifting lever connecting rod
31	18082	1	Knee lifter bell crank complete
32	18085	2	Set screw for Knee lifter bell crank complete

10 LOWER FEEDING MECHANISM

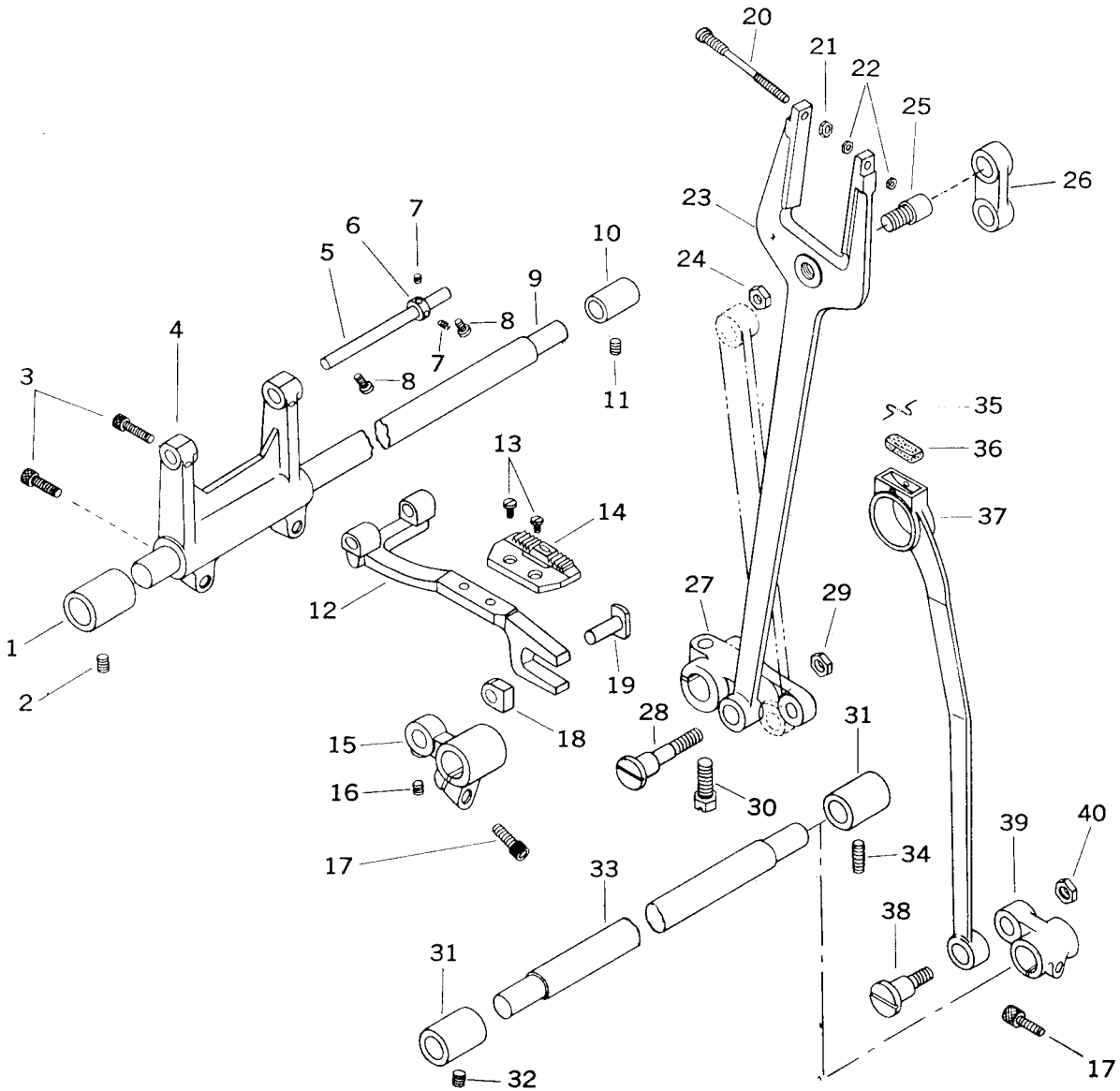
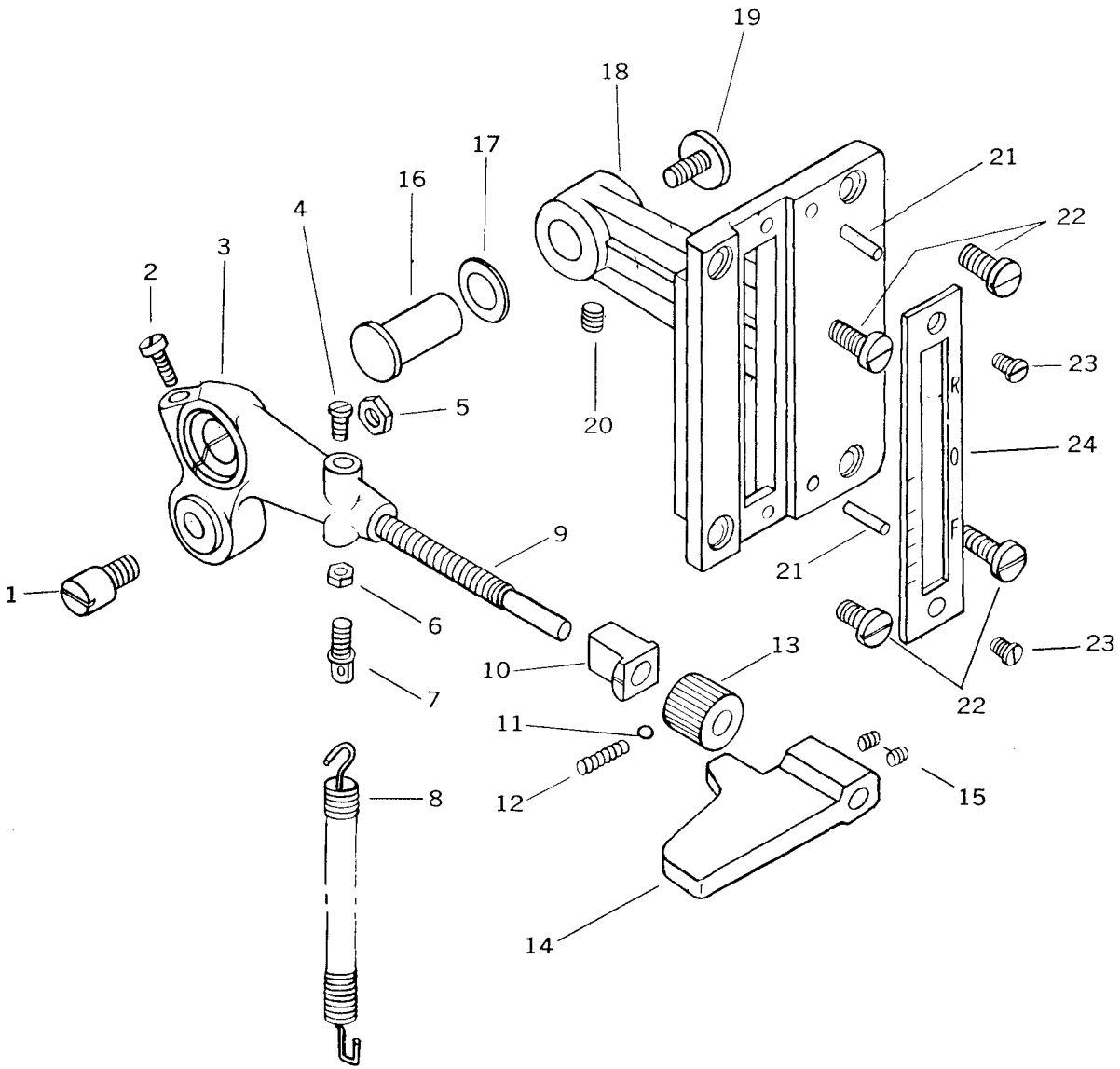


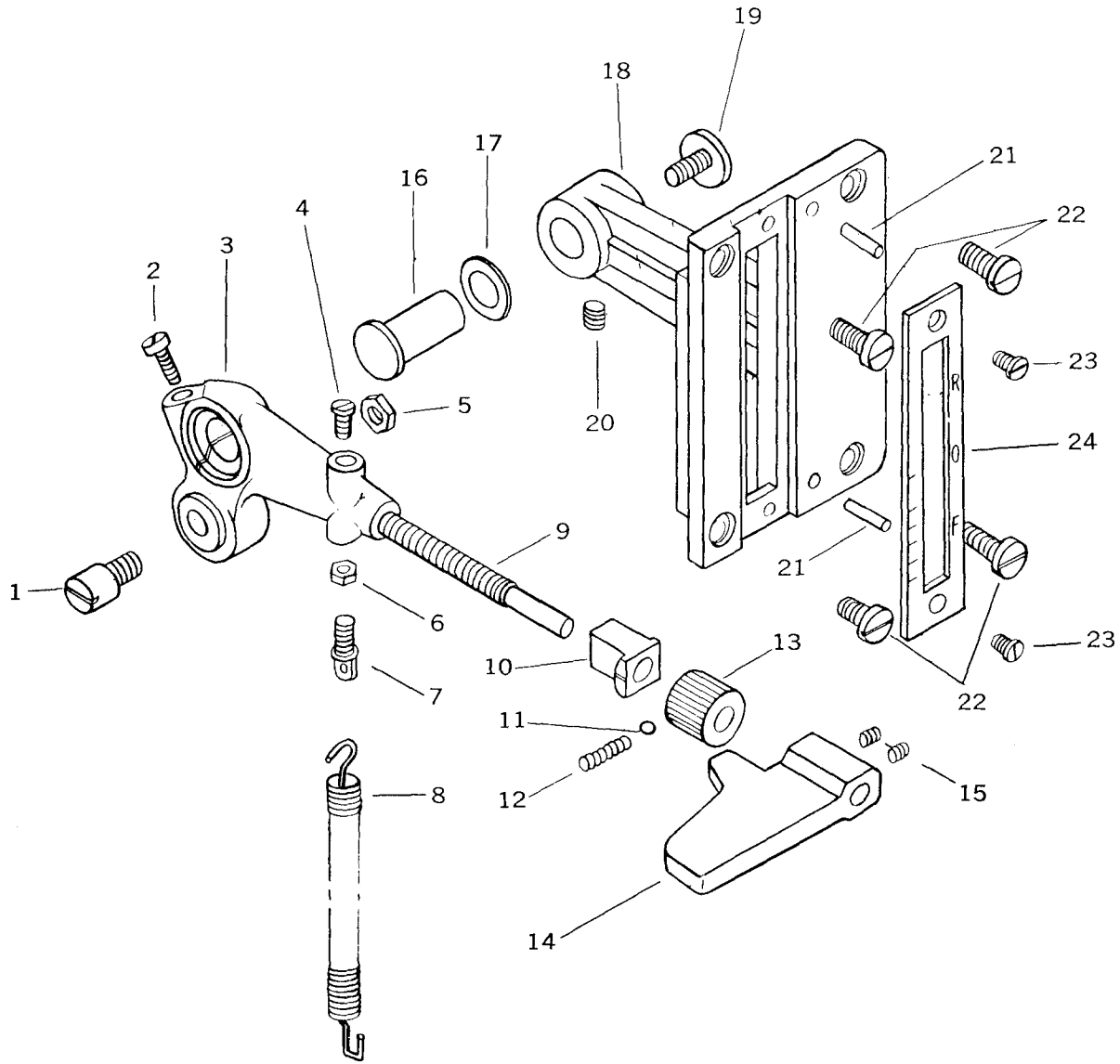
Fig. No.	Parts No.	Quantity	Name of Parts
1	18062	1	Feed rock shaft bushing (front)
2	8009	1	Set screw for #18062
3	18065	2	Set screw for #18065
4	18064	1	Feed rock shaft base
5	18067	1	Feed base supporting pin
6	18068	1	Feed base supporting pin collar
7	8103	2	Set screw for #18068
8	21104	2	Set screw for #18067
9	18061	1	Feed rock shaft
10	18063	1	Feed rock shaft bushing (rear)
11	21124	1	Set screw for #18063
12	18066	1	Feed base
13	8044	2	Feed dog screw
14	18031	1	Feed dog (Standard type)
15	18074	1	Feed lifting rock shaft front bell crank
16	2067	1	Set screw for #18075
17	18065	2	Set screw for feed lifting rock shaft bell crank
18	18075	1	Feed lifting rock shaft slide block
19	18076	1	Pin for #18075
20	18011	1	Set screw for #18010

Fig. No.	Parts No.	Quantity	Name of Parts
21	4137	1	Nut (big) for #18010
22	4211	2	Nut (small) for #18010
23	18010	1	Feed forked connection
24	8105	1	Nut for #18010
25	18014	1	Hinge screw for #18010
26	17207	1	Feed connecting link
27	18070	1	Feed rock shaft bell crank (Back)
28	18015	1	Hinge screw for #18010
29	8105	1	Nut for #18010
30	10754	1	Pinch screw for #18070
31	18073	2	Feed lifting rock shaft bushing
32	8009	1	Set screw (front) for #18073
33	18072	1	Feed lifting rock shaft
34	10579	1	Set screw (rear) for #18073
35	10723	1	Oiling felt presser pin
36	17041	1	Oiling felt for #18021
37	18021	1	Crank connecting rod
38	18018	1	Hinge screw for #18021
39	18077	1	Feed lifting rock shaft bell crank (back)
40	8105	1	Nut for #18018

FEED REGULATOR



FEED REGULATOR



FEED REGULATOR

Fig. No.	Parts No.	Quantity	Name of Parts
1	17209	1	Feed regulating screw
2	17053	1	Set screw for #18022
3	18022	1	Feed regulator
4	4019	1	Set screw for #18025
5	8105	1	Nut for #18025
6	4135	1	Nut for #18026
7	17059	1	Screw for #18026
8	18026	1	Feed regulating lever spring
9	18025	1	Feed regulating lever
10	13417	1	Feed adjusting pipe
11	8158	1	Bearing ball 1/8"
12	8157	1	Spring for #8158
13	13416	1	Feed adjusting knurling tool
14	18027	1	Reverse stitch lever
15	18028	2	Screw (small) for #18027
16	17055	1	Feed regulating support stud
17	17057	1	Washer for #17055
18	18023	1	Feed regulating base
19	1368	1	Supporting stud pushing screw
20	17056	1	Screw for #18023
21	50174	2	Pin for #18023
22	12361	4	Screw for #18023
23	17093	2	Set screw for #18024
24	18024	1	Stitch length indicating plate

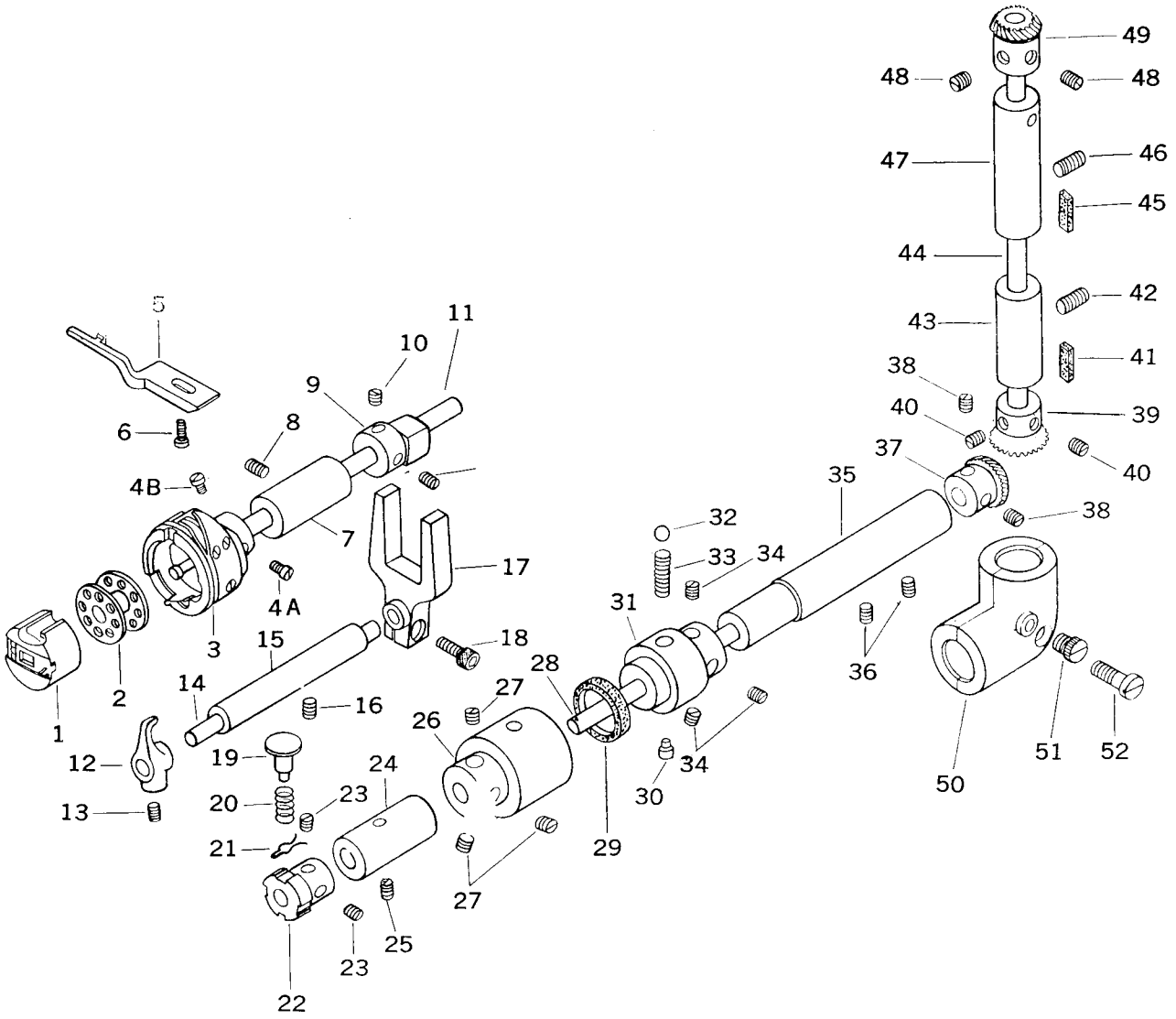

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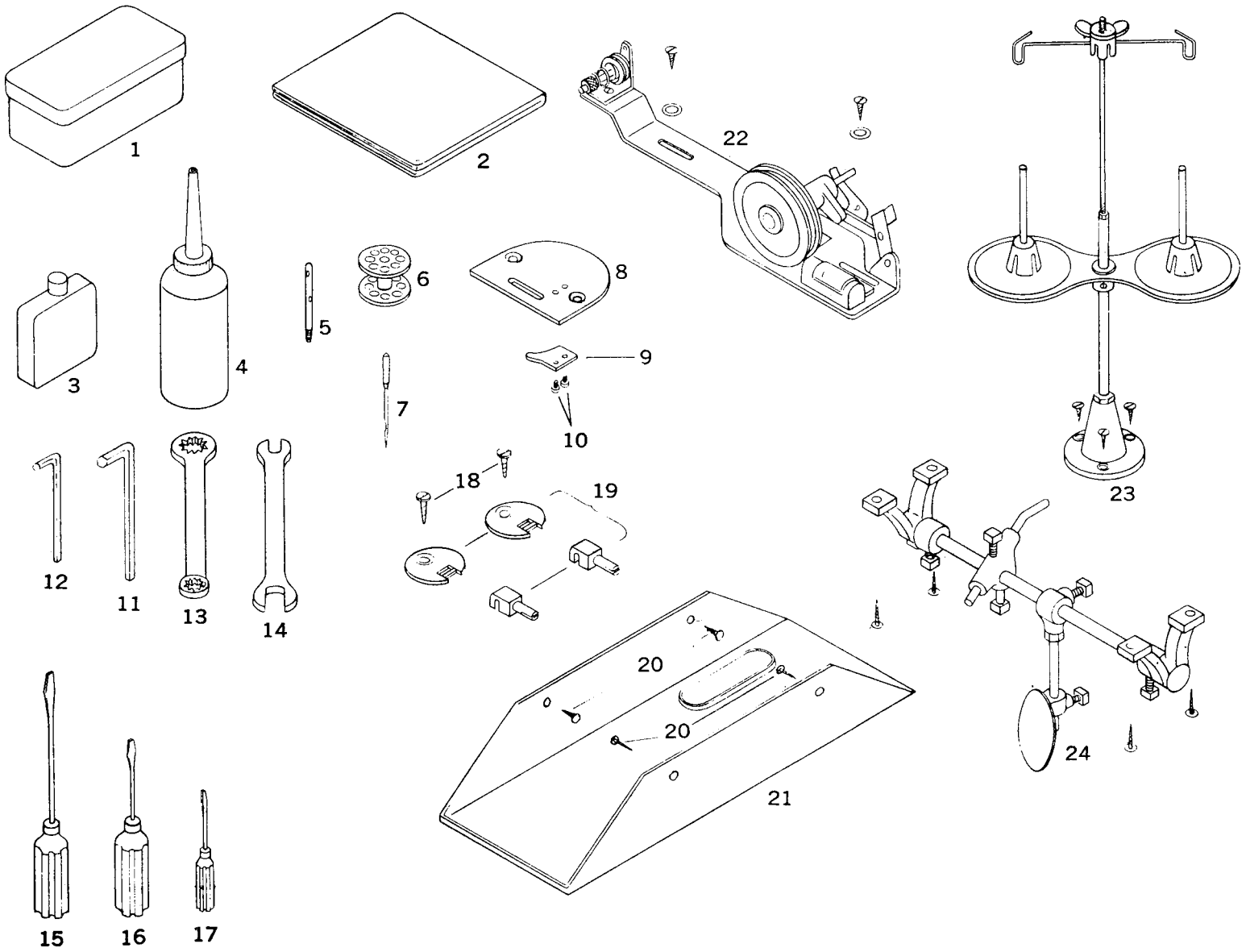
Fig. No.	Parts No.	Quantity	Name of Parts
1	18045	1	Bobbin case complete
2	18034	1	Bobbin
3	18033	1	Rotating hook complete
4A 4B	18033-7 18033-8	1 1	Hook set screw (A) Hook set screw (B)
5	18035	1	Hook supporting plate
6	6025	1	Set screw for #18035
7	18037	1	Hook shaft bushing (front)
8	8009	1	Set screw for #18037
9	18044	1	Hook shaft collar
10	50304	2	Set screw for #18044
11	18036	1	Hook driving shaft
12	18039	1	Thread release finger
13	18040	1	Set screw for #18039
14	18041	1	Thread releasing shaft
15	18042	1	Thread releasing shaft bushing
16	21124	1	Set screw for #18042
17	18043	1	Thread releasing shaft fork
18	30066	1	Pinch screw for #18043
19	18053	1	Push button
20	18054	1	Push button spring
21	10674	1	Clip for #18033
22	18052	1	Hook shaft lock ratchet
23	17022	2	Set screw for #18052
24	18038	1	Hook shaft bushing (rear)
25	8009	1	Set screw for #18038
26	18047	1	Safety clutch (left)

Fig. No.	Parts No.	Quantity	Name of Parts
27	17019	3	Set screw for #18047
28	18056	1	Lower shaft
29	18046	1	Oil wick for #18047
30	18051	1	Set screw for #18050
31	18041	1	Safety clutch (right)
32	18049	1	Steel ball
33	18050	1	Spring for #18041
34	17019	3	Set screw for #18041
35	18057	1	Lower shaft bushing
36	8009	2	Set screw for #18057
37	17028	1	Lower shaft gear (spiral)
38	17022	2	Set screw for #17027
39	17023	1	Arm shaft (upright) gear (lower)
40	17022	2	Set screw for #17023
41	17026	1	Oiling felt for #17025
42	10571	1	Set screw for #17026
43	17025	1	Arm shaft (upright) bushing (lower)
44	17020	1	Arm shaft (upright)
45	17026	1	Oiling felt for #17024
46	10571	1	Set screw for #17026
47	17024	1	Arm shaft (upright) bushing (upper)
48	17022	2	Set screw for #17021
49	17021	1	Arm shaft (upright) gear (spiral)
50	18058	1	Gear cover complete (lower)
51	18060	1	Gear cover (lower) sealing screw
52	18059	1	Pinch screw for #18058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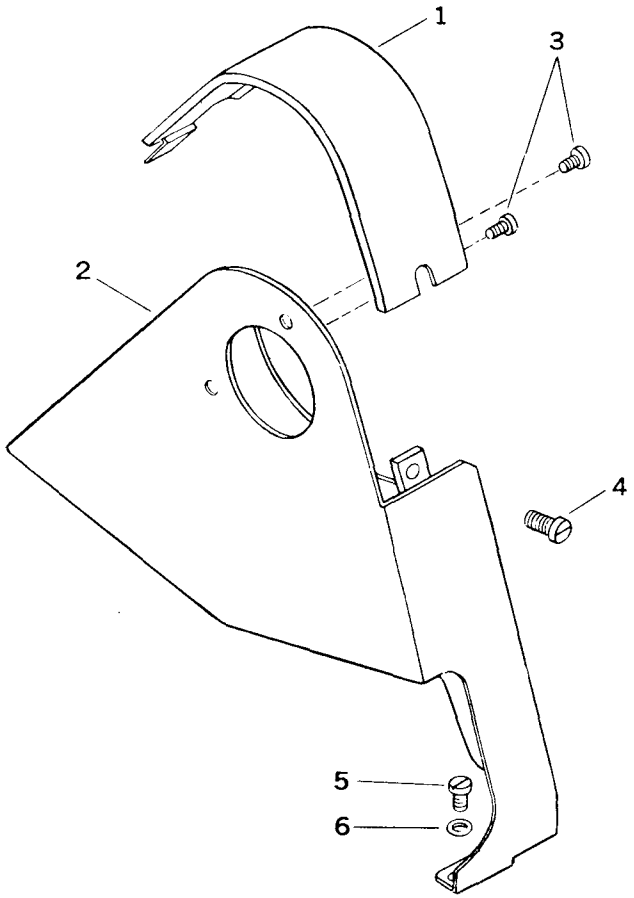
ACCESSORIES

Fig. No	Parts No.	Quantity	Name of Parts
1	8132	1	Accessories box
2	6057	1	Vinyl cover
3	8123	1	Oil
4	8125	1	Oiler
5	10709	1	Spool pin
6	18034	6	Bobbin
7	6332	3	Needle DPx17 #22
8	18029	1	Needle plate (for without lower feed)
9	2056	1	Needle plate spring
10	2063	2	Set screw for #2056
11	15571	1	Wrench 4.0mm
12	11969	1	Wrench 2.5mm
13	10748	1	Double head wrench
14	18084	1	Spanner 6×7mm
15	8118	1	Screw driver (large)
16	8120	1	Screw driver (middle)
17	8121	1	Screw driver (small)
18	6052	2	Screw for #6051
19	6051	2	Bed hinge connection
20	6055	4	Nail for #6054
21	6054	1	Oil pan
22	10734	1	Bobbin winder complete
23	10780	1	Thread·stand
24	18038	1	Knee lifter complete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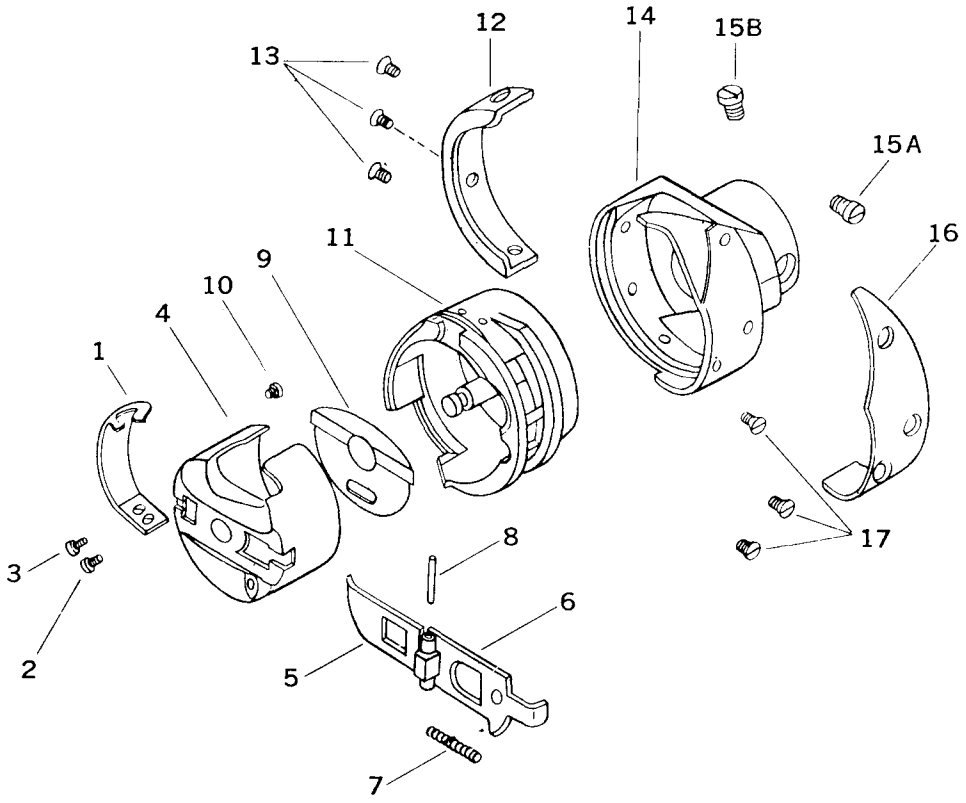
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Fig. No.	Parts No.	Quantity	Name of Parts
1	15099	1	Belt guard upper cover
2	15098	1	Belt guard
3	10650	2	Set screw for #15098 (upper)
4	12481	1	Set screw for #15099
5	10650	1	Set screw for #15098 (lower)
6	11142	1	Washer for #10650

Fig. No.	Parts No.	Quantity	Name of Parts
1	18045- 2	1	Thread tension spring
2	18045- 4	1	Set screw for #18045-2
3	18045- 3	1	Thread tension spring regulating screw
4	18045- 1	1	Bobbin case
5	18045- 5	1	Bobbin case pulling plate
6	18045- 6	1	Bobbin set plate
7	18045- 8	1	Bobbin set plate spring
8	18045- 7	1	Pin for #18045-6
9	18045-10	1	Thread releasing protecting spring
10	18045- 9	1	Set screw for #18045-5
11	18033- 4	1	Bobbin case base
12	18033- 5	1	Hook gib
13	18033- 6	3	Set screw for #18033-5
14	18033- 1	1	Rotating hook only
15A	18033- 7	1	Hook set screw (A)
15B	18033- 8	1	Hook set screw (B)
16	18033- 2	1	Thread guide
17	18033- 3	3	Set screw for #18033-2