

HIGHLEAD

GC24699

**Adjustable High Post Bed
Compound Feed Lockstitch Sewing Machine**

Instruction Manual

Parts Catalog

SHANGHAI BIAOZHUN HAILING SEWING MACHINERY CO., LTD.

—CONTENTS—

OPERATION INSTRUCTION

1. PRECAUTIONS BEFORE STARTING OPERATION.....	1
2. LUBRICATION.....	2
3. PRECAUTIONS OPERATION.....	2
4. INSTALLING NEEDLE.....	2
5. WINDING BOBBIN THREAD.....	2
6. THREADING.....	3
7. BALANCE OF THREAD TENSION.....	3
8. ADJUSTMENT OF STITCH LENGTH AND REVERSE SEWING.....	3
9. ADJUSTMENT OF THREAD TENSION.....	3
10. ADJUSTMENT OF THE PRESSURE OF PRESSER FEET.....	4
11. TIMING BETWEEN THE HOOK AND NEEDLE.....	4
12. TILT THE HOOK SADDLE.....	4
13. TIMING BETWEEN ROTATING HOOK MOTION AND TAKE-UP LEVER MOTION.....	4
14. TIMING BETWEEN THE NEEDLE AND HOOK.....	5
15. SAFETY CLUTCH DEVICE.....	5
16. ADJUSTMENT THE STITCH TOLERANCE.....	6
17. INSTALLATION OF BELT COVER.....	6

PARTS CATALOG

A. ARM BED AND ITS MECHANISM.....	7
B. THREAD TENSION REGULATOR MECHANISM.....	9
C. UPPER SHAFT MECHANISM.....	11
D. PRESSER FOOT MECHANISM.....	13
E. THREAD TAKE-UP LEVER&NEEDLE BAR MECHANISM.....	16
F. STITCH REGULATOR MECHANISM.....	19
G. LOWER SHAFT&FEED ROCK SHAFT MECHANISM.....	21
H. FEED BAR MECHANISM.....	24
I. HOOK SADDLE MECHANISM.....	26
J. HOOK SADDLE SLANTING MECHANISM.....	28
K. OIL LUBRICATION MECHANISM.....	30
L. ACCESSORIES.....	32

1. PRECAUTIONS BEFORE STARTING OPERATION

1) Safety precautions:

(1) When turning the power on, keep your hands and fingers away from the area around/under the needle and the area around the pulley.

(2) Power must be turned off when the machine is not in use, or when the operator leaves the seat.

(3) Power must be turned off when tilting the machine head, installing or removing the “V” belt, adjusting the machine, or when replacing.

(4) Avoid placing fingers, hairs, bars etc., near the pulley, “V” belt, bobbin winder pulley, or motor when the machine is in operation.

(5) Do not insert fingers into the thread take-up cover, under/around the needle, or pulley when the machine is in operation.

(6) If a belt cover, finger guard, eye guard are installed, do not operate the machine without these safety devices.

2) Precautions before starting operation:

(1) If the machine’s oil pan has an oil sump, never operate the machine before filling it.

(2) If the machine is lubricated by a drop oiler, never operate the machine before lubricating.

(3) When a new sewing machine is first turned on, verify the rotational direction of the pulley with the power on. (The pulley should rotate counterclockwise when viewed from the pulley)

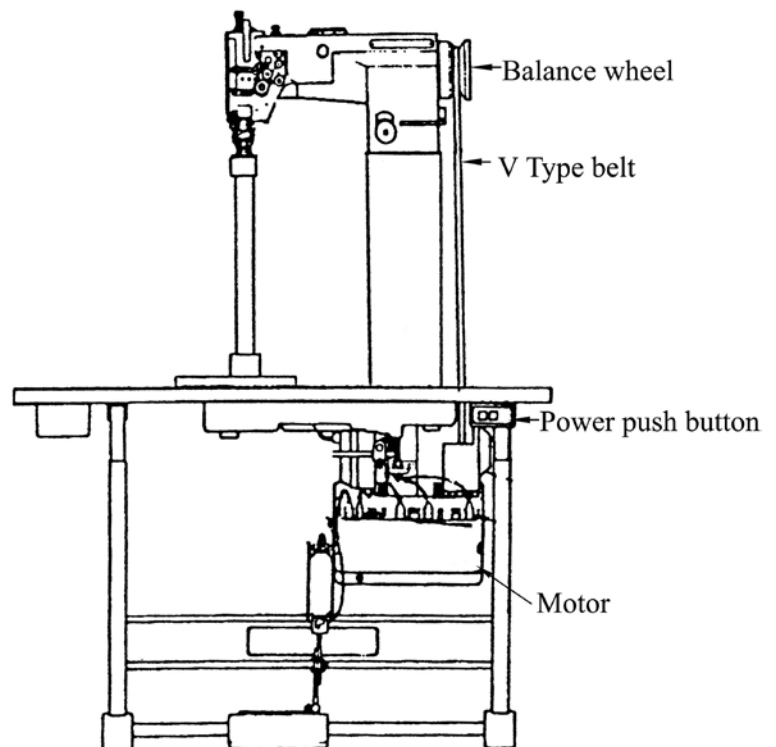
(4) Verify the voltage and (single or three) phase with those given on the machine nameplate.

3) Precautions for operating conditions:

(1) Avoid using the machine at abnormally high temperatures (35°C or higher) or low temperatures (5°C or lower) .

(2) Avoid using the machine in dusty conditions.

Overall view of assembled sewing machine

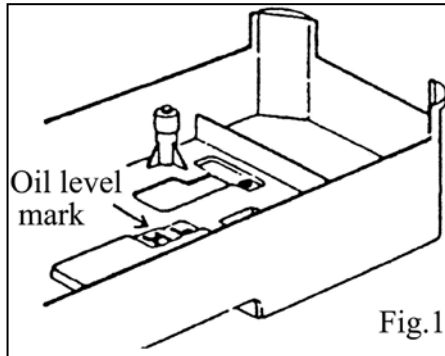


2. LUBRICATION(Fig.1, Fig.2, Fig.3)

1) Oiling(1)

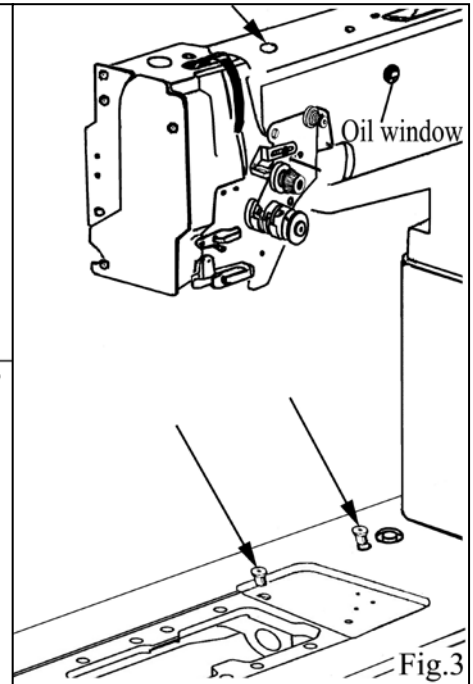
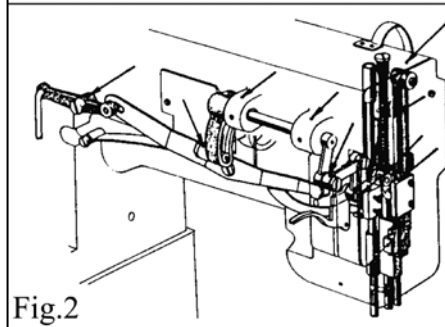
Filling the oil reservoir with oil up to “H” mark. Oil level should be periodically checked. If oil level is found below “L” level replenish oil to “H” level.

Use white spindle oil.



2) Oiling(2)

When a new sewing machine is used for the first time, or sewing machine left out of use for considerably long time is used again, replenish a suitable amount



of oil to the portions indicated by arrow in the below figure.

3) Oiling condition

See dripping of oil through the oil sight window to check oiling condition during operation.

3. PRECAUTIONS OPERATION

(1) When the power is turned on or off, keep foot away from the pedal.

(2) It should be noted that the brake might not work when the power is interrupted or power failure occurs during sewing machine operation.

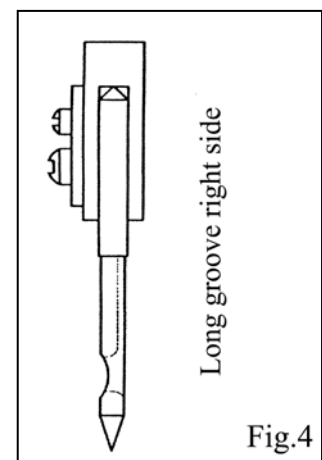
(3) Since dust in the control box might cause malfunction or control troubles, be sure to keep the control box cover close during operation.

(4) Do not apply a Multimeter to the control circuit for checking. Otherwise voltage of Multimeter might damage semiconductor components in the circuit.

4. INSTALLING NEEDLE(Fig.4)

Note: Before installing the needle, be sure to turn off the power.

To install the needle, turn the machine pulley over toward operator(or counter-clockwise) until the needle bar moves up to its highest point, put the needle up into the needle bar as deeply as it will go, with the long groove of the needle faced right side. Tighten the needle set screw securely.



5. WINDING BOBBIN THREAD(Fig.5)

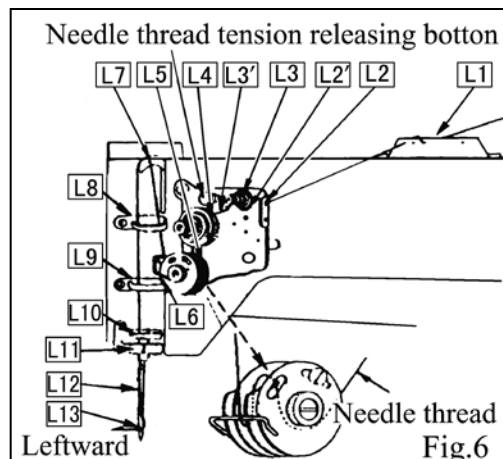
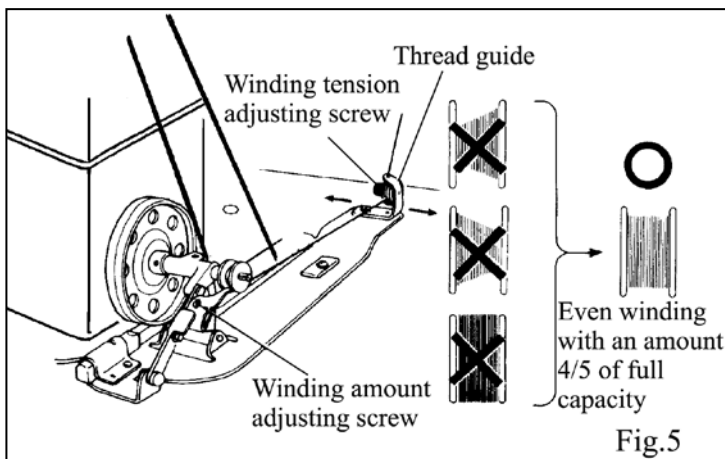
Note: When bobbin thread is wound, keep the presser foot lifted

Adjustment:

Tension of wound thread: Slack winding is recommended for polyester thread and nylon thread.

Conically wound thread: Move the thread guide toward smaller diameter of wound thread layer.

Length of wound thread: Loosen the thread length adjusting screw to increase length of the thread and tighten the screw to decrease length of thread.

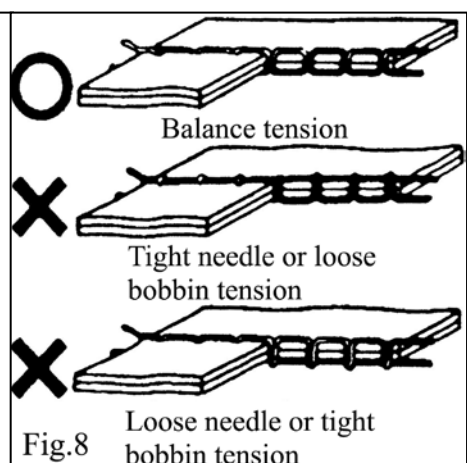
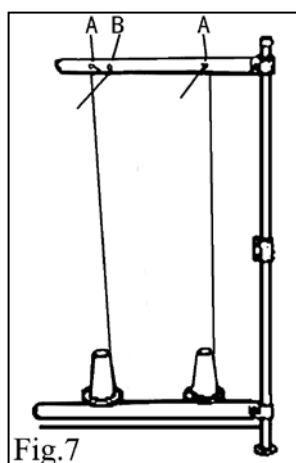


6. THREADING (Fig. 6, Fig. 7)

(1) Pass each thread through thread guide A.

Note: When thin slippery thread (polyester thread) is used pass the thread through thread guide B as shown in Fig. 7.

(2) Thread take-up lever to the highest position, pass each thread in the order in Fig. 6.



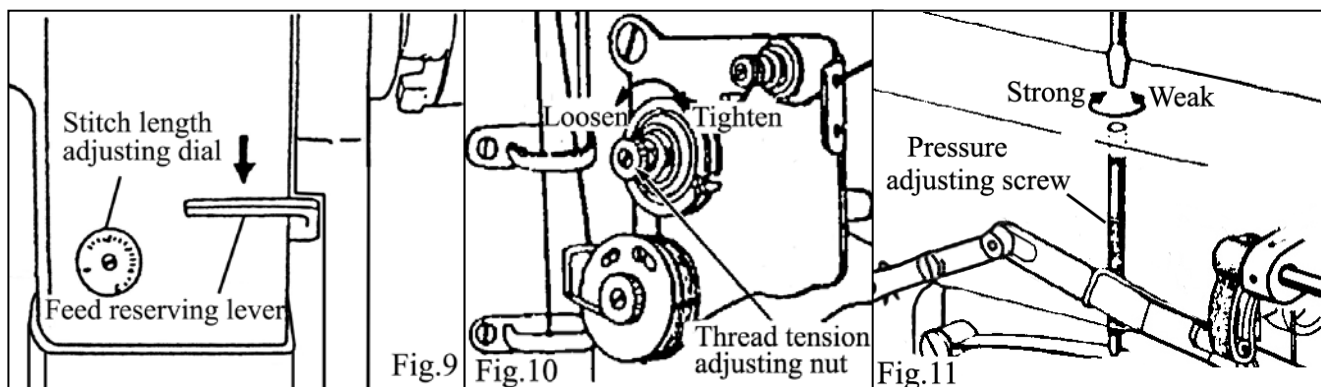
Note: Pressing the tension releasing button, the thread can be pulled out easily.

7. BALANCE OF THREAD TENSION (Fig. 8)

8. ADJUSTMENT OF STITCH LENGTH AND REVERSE SEWING (Fig. 9)

Rotate the stitch length adjusting dial to change the stitch length.

When press the feed reversing lever, reverse sewing will take place. Loosen the lever, reverse sewing will disappear.



9. ADJUSTMENT OF THREAD TENSION (Fig. 10)

Needle thread tension should be adjusted in reference to bobbin thread tension.

To adjust needle thread tension, turn each tension adjusting nut. Needle thread tension can be also adjusted for special fabric and thread by changing intensity and movable range of slack thread adjusting spring.

10. ADJUSTMENT OF THE PRESSURE OF PRESSER FEET(Fig.11)

The pressure of the presser feet is regulated by the adjusting screw.

To increase the pressure, turn the screw to clockwise, and decrease it, turn the screw to counter-clockwise.

11. TIMING BETWEEN THE HOOK AND NEEDLE(Fig.12)

(1) Set the stitch length to “7” on the stitch length dial.

(2) When the needle is lifted 2.4mm from the lower dead point, the following positional relationship should be maintained:

a. The lower edge of needle eye should be 2.3mm below the hook point.

b. The center of the needle the hook point is on a line.

c. Gap between the hook point and the side face of needle should be 0.05mm.

12. TILT THE HOOK SADDLE(Fig.13, Fig.14)

When put material to be sewn onto or remove it from the hook saddle, the hook saddle can be tilted to operator. Loosen the lever 2 as fig.14, then press the lever 3 toward to operator as fig.14. The hook saddle can be tilted. The pressure of the lever 3 can be adjusted by the nut. After material put on or remove, push the hook saddle to the original position. And tighten the lever 2.

13. TIMING BETWEEN ROTATING HOOK MOTION AND TAKE-UP LEVER MOTION (Fig.15)

When the timing belt is removed for its replacement, for example, the relationship between rotating hook motion and take-up lever motion should be adjusted as follow:

(1) Turn the balance wheel and stop when the take-up lever is lifted to its upper dead point.

(2) Lean the machine head backward and make sure the

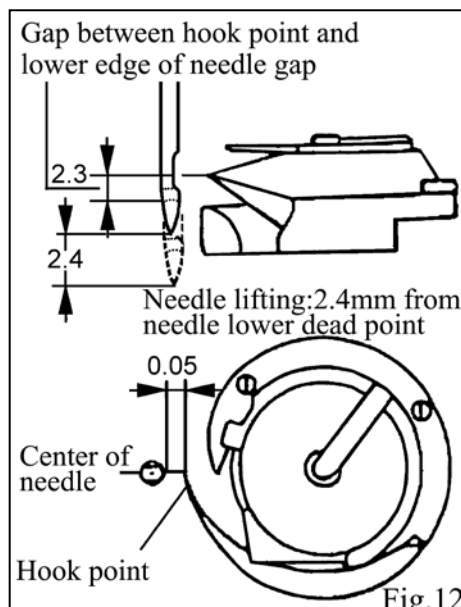


Fig.12

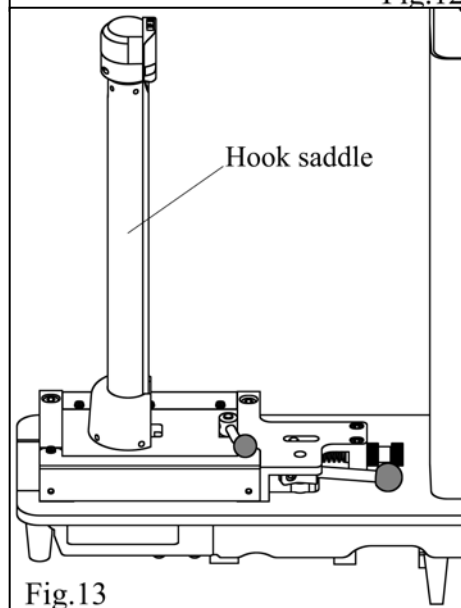


Fig.13

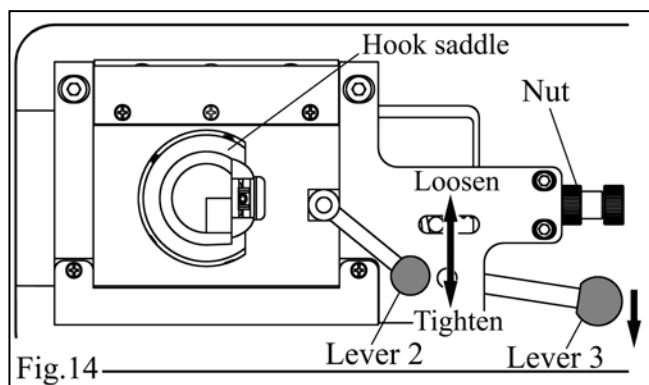


Fig.14

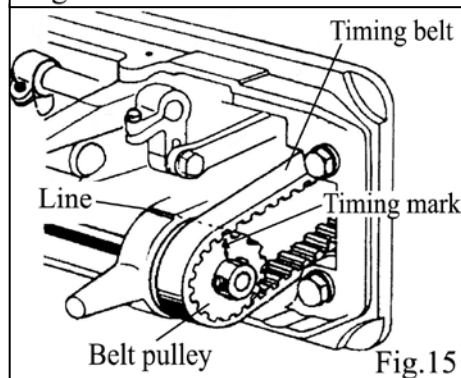


Fig.15

arrow(timing mark)put on the timing belt is in line with the line on the boss of lower shaft bearing.

(3) If the timing mark is not in line with the line,remove the timing belt and install it again to adjust.

14. TIMING BETWEEN THE NEEDLE AND HOOK(Fig.16,Fig.17,Fig.18)

(1) Set the stitch length to “0”on the feed setting dial.

(2) Lean the machine head backward.

(3) Loosen the feed lifting rock shaft crank set screw A and B.

(4) Set the needle at the lowest position.

(5) Adjust the distance between presser bar and vibration bar to 8mm and temporarily tighten the feed lifting rock shaft crank set screw A and B.

(6) Check the right feed lifting rock shaft crank is connected with the link at right angle,as shown in Fig.17.

(7) If the connection is not at righr angle,remove the back cover,loosen screw C .

(8) And regulate the right angle.

(9) After the complention of adjustment,fully tighten the screw A,B and C.

Note:At the same time make sure that the position between the needle and the feed dog.

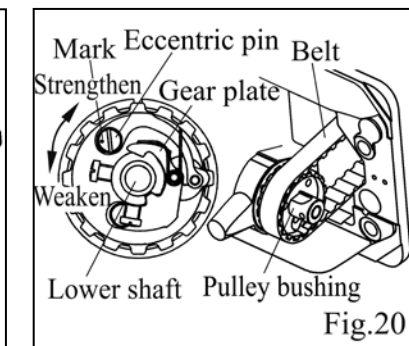
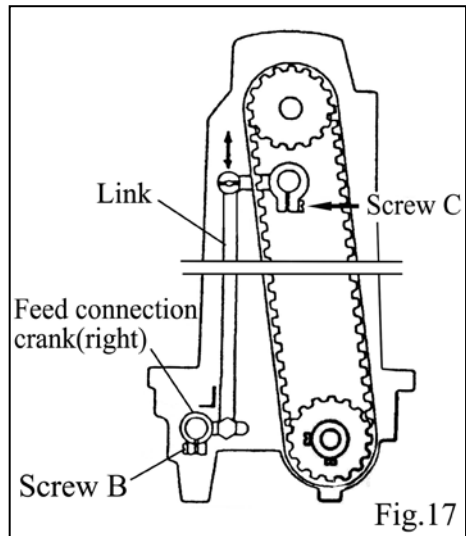
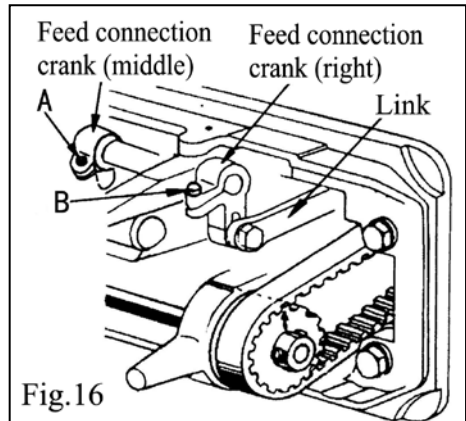
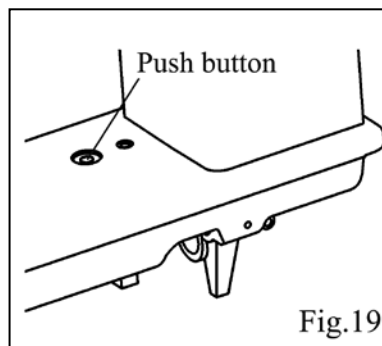
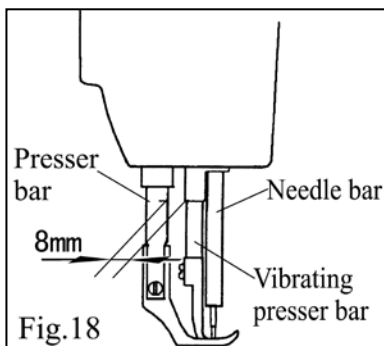
15. SAFETY CLUTCH DEVICE(Fig.19,Fig.20)

Safety clutch device is installed to prevent the hook and belt from damage in case the thread is caught into the hook when the machine is loaded abnormally during operation.

(1) Function of safety clutch

a.When the safety clutch operate,the belt pulley will be unloaded,the lower shaft will stop.Only the arm shaft operate.The machine stop operation.

b.Clean the thread thoroughly which is caught into the hook.



c.Turn the belt bushing by hand,check the lower shaft rorates lightly.Then set the clutch device in the starting position.

(2) Set the safety clutch

a. While pressing down the push button on the bed by left hand, turn the pulley slowly by right hand away from you as shown in Fig.19.

b. When the belt pulley stopped by the gear plate, then turn the pulley more firmly.

c. Release the push button, the safety clutch device is set.

(3) Force applied to the safety clutch

a. The force applied to the safety clutch is the smallest when the mark on

the eccentric pin faces the center of the lower shaft. The force proportionally increases as the mark faces the outside.

b. To adjust the force slide the belt, loosen the set screw, and turn eccentric pin.

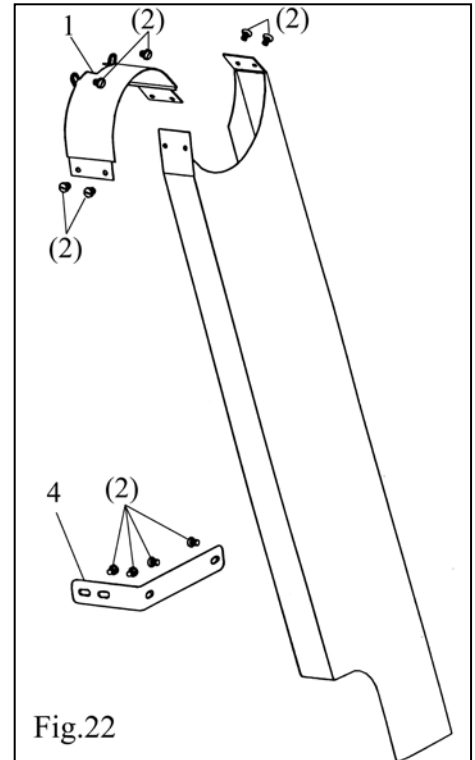
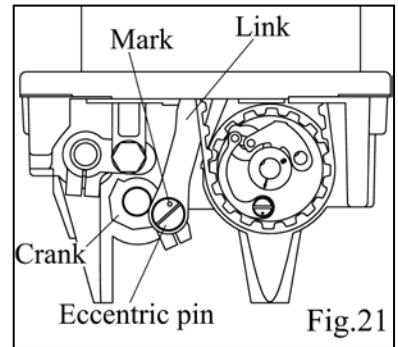
c. After the adjustment, make sure to fasten the set screw.

16. ADJUSTMENT THE STITCH TOLERANCE (Fig.21)

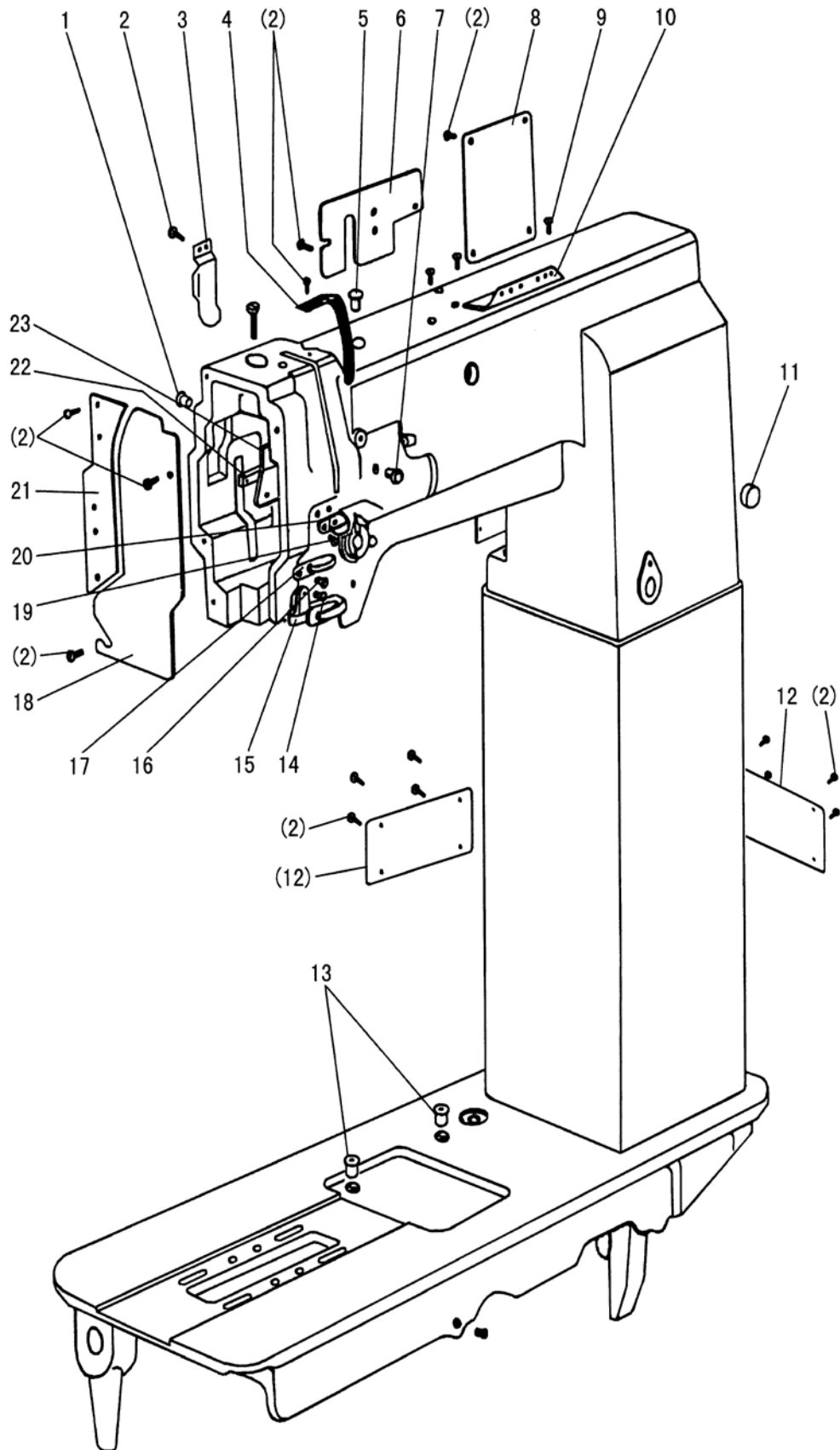
Screwing the pin that connects the link of back-sewing with the crank of back-sewing (down) can adjust the tolerance of between the stitched. Screwing the pin in clockwise can increase the stitch of forward sewing, otherwise, the stitch of back-sewing will be increased.

17. INSTALLATION OF BELT COVER (Fig.22)

Install the belt cover 1 on the arm with the screws 2. Assemble the belt cover 1 and 3 with the screws 2. And then fixed the belt cover on the arm with the belt cover stand 4, tighten the screws 2.



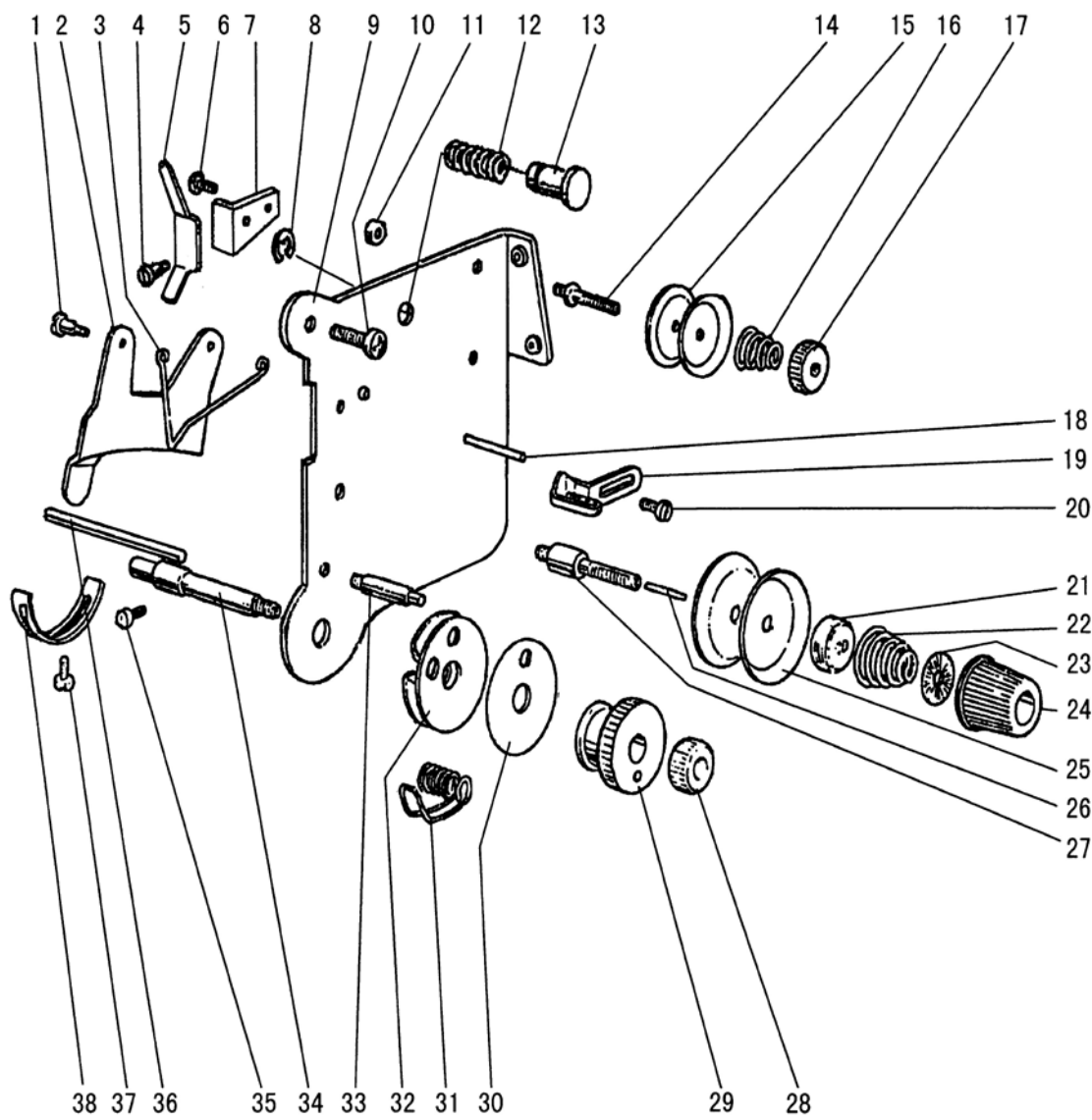
A.ARM BED AND ITS ACCESSORIES



A.ARM BED AND ITS ACCESSORIES

Fig. No.	Part No.	Description	Pcs.	Remarks
A01	HA300B2090	Rubber plug	2	
A02	HA300B2170	Screw	15	
A03	H4716B8001	Oil guard plate	1	
A04	H4717B8001	Thread take-up cover	1	
A05	H4715B8001	Rubber plug	1	Φ 13
A06	H4718B8001	Side plate(left)	1	
A07	H2000B2010	Rubber plug	1	
A08	H4719B8001	Side plate(right)	1	
A09	HA700B2060	Screw	2	
A10	H2400B2100	Thread guide	1	
A11	HA307B0673	Rubber plug	1	Φ 18
A12	H7117B8001	Cover	2	
A13	H2000M0090	Cap	2	
A14	H3200B2100	Screw	1	SM9/64 (40) × 6.5
A15	H3212B0066	Thread guide complete	1	
A16	H3000D2160	Screw	1	
A17	H4726B8001	Thread guide	1	
A18	H4727B8001	Face plate	1	
A19	H2400B2080	Screw	2	
A20	H2400B2070	Thread guide	1	
A21	H4730B8001	Guide mounting plate	1	
A22	H2400B2060	Spacer	1	
A23	H3200B2060	Oil guard plate	1	

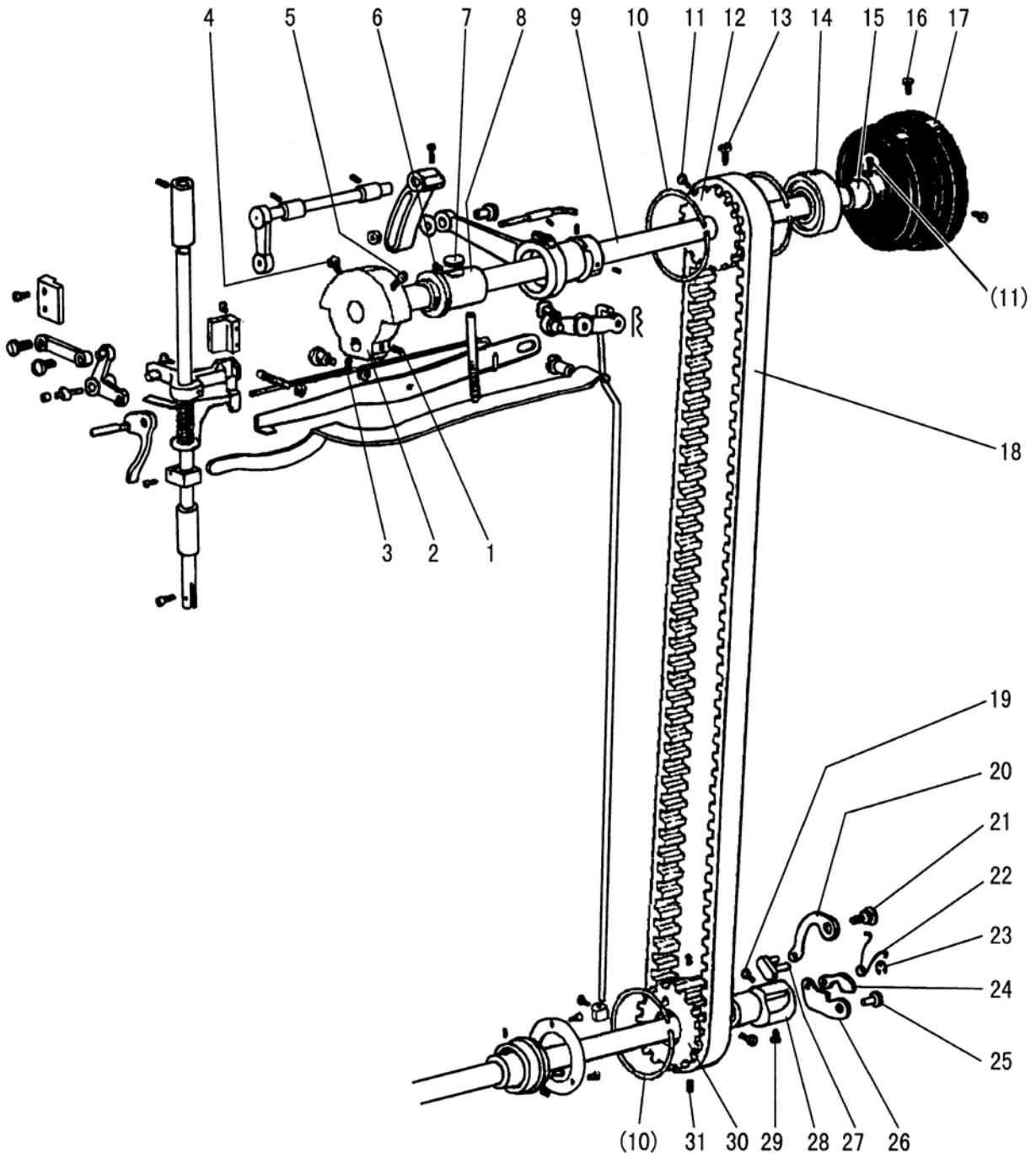
B.THREAD TENSION REGULATOR MECHANISM



B.THREAD TENSION REGULATOR MECHANISM

Fig. No.	Part No.	Description	Pcs.	Remarks
B01	H3221B6811	Screw	2	
B02	H3221B3142	Tension releasing plate	1	
B03	H3221B6812	Tension releasing spring	1	
B04	H4705C8001	Screw	1	
B05	H4706C8001	Lever	1	
B06	HA7311C306	Screw	1	
B07	H4707C8001	Mounting plate	1	
B08	H007013050	E-type ring	1	
B09	H3221B6820	Mounting plate	1	
B10	HA300C2030	Screw	2	
B11	H3221B6810	Nut	2	
B12	H4708C8001	Spring	1	
B13	H4709C8001	Push button	1	
B15	HA112B0693	Thread tension disk	2	
B16	H3221B0684	Spring	1	
B17	HA710B0671	Nut	1	
B18	H3221B0682	Pin	2	
B19	H3306B0661	Thread guide	1	
B20	HA106B0676	Screw	1	
B21	HA310B0702	Thread tension disk	1	
B22	H4710C8001	Spring	1	
B23	HA115B7010	Thumb nut revolution disc	1	
B24	HA310B0701	Thumb nut	1	
B25	HA310B0705	Thread tension disc	2	
B26	H3221B6816	Pin	1	
B27	H3221B0686	Thread tension stud	1	
B28	H32481B721	Nut	1	
B31	H4713C8001	Spring	1	
B32	H32481BD21	Plate complete	1	
B33	H4804C8001	Screw	1	
B34	H4805C8001	Screw	1	
B35	H3230K0751	Screw	1	
B36	H3221B6817	Pin	1	
B37	H3200B2100	Screw	1	
B38	H3221B6819	Stopper	1	

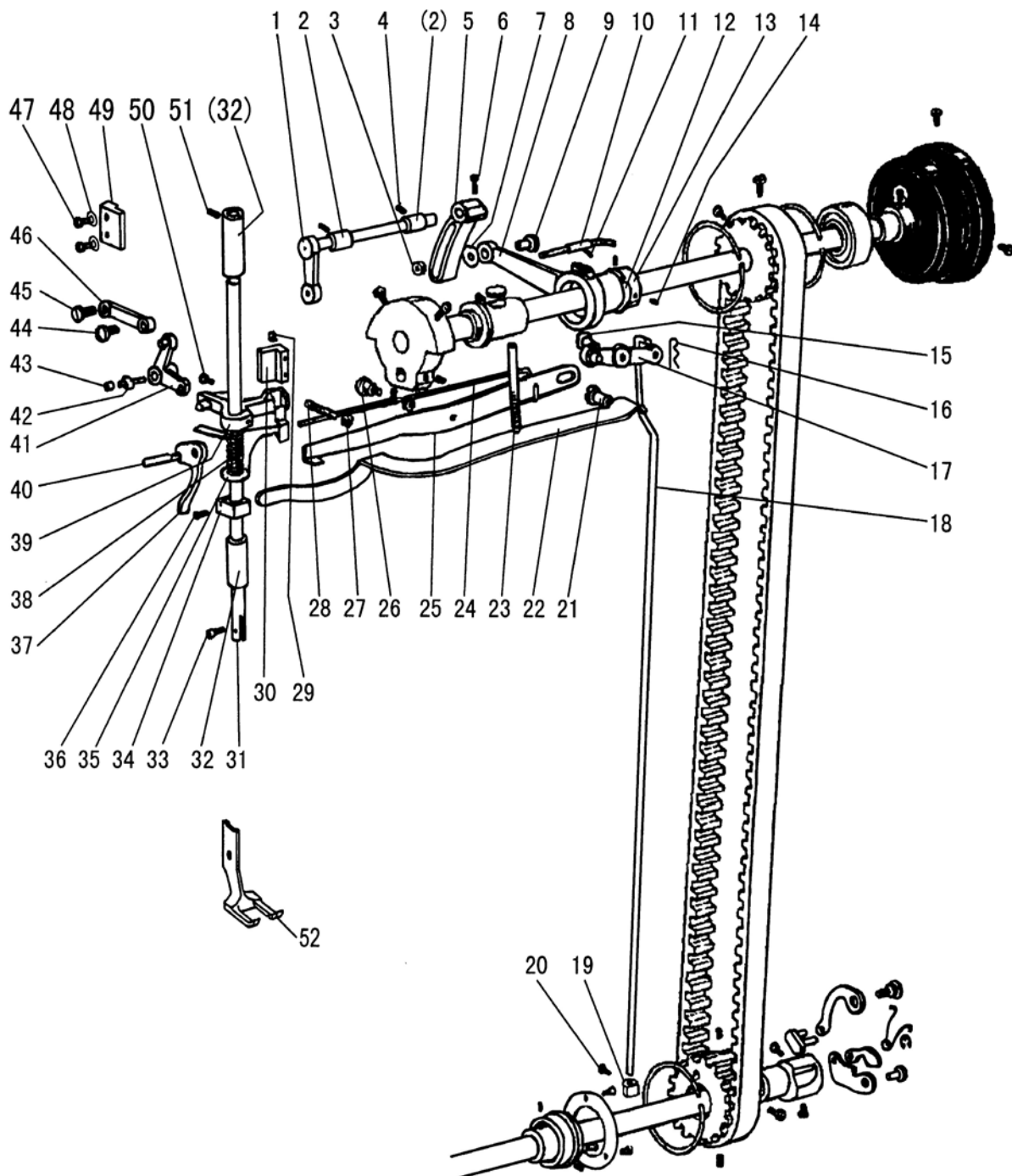
C.ARM SHAFT MECHANISM



C.ARM SHAFT MECHANISM

Fig. No.	Part No.	Description	Pcs.	Remarks
C01	HA307C0662	Screw	1	
C02	H4706D8001	Needle bar crank	1	
C03	HA105D0662	Screw	1	
C04	HA100C2060	Screw	1	
C05	HA100C2070	Screw	1	
C06	H4708D8001	Screw	1	
C07	H32111B104	Felt	1	
C08	H32111B204	Arm shaft bushing(left)	1	
C09	H4709D8001	Shaft	1	
C10	H3205C0661	Spring flange	2	
C11	HA113F0684	Screw	2	
C12	H3205C1021	Belt pulley(upper)	1	
C13	HA100F2130	Screw	1	
C14	H3205J0662	Bearing	1	
C15	H3205J0661	Collar	1	
C16	HA110D0672	Screw	2	SM15/64 (5.95) × 28
C17	H4100C2040	Pulley	1	
C18	H7104D8001	Belt	1	
C19	HA104F0654	Screw	1	
C20	H4713D8001	Link	1	
C21	H4714D8001	Pin	1	
C22	H4716D8001	Spring	1	
C23	H007013025	E-type ring	1	
C24	H4717D8001	Link	1	
C25	H4718D8001	Pin	1	
C26	H4719D8001	Link	1	
C27	H4715D8001	Pin	1	
C28	H4720D8001	Shaft	1	
C29	H4721D8001	Screw	1	
C30	H4722D8001	Belt pulley(lower)	1	
C31	H4723D8001	Screw	2	

D. UPPER SHAFT & PRESSER FOOT MECHANISM



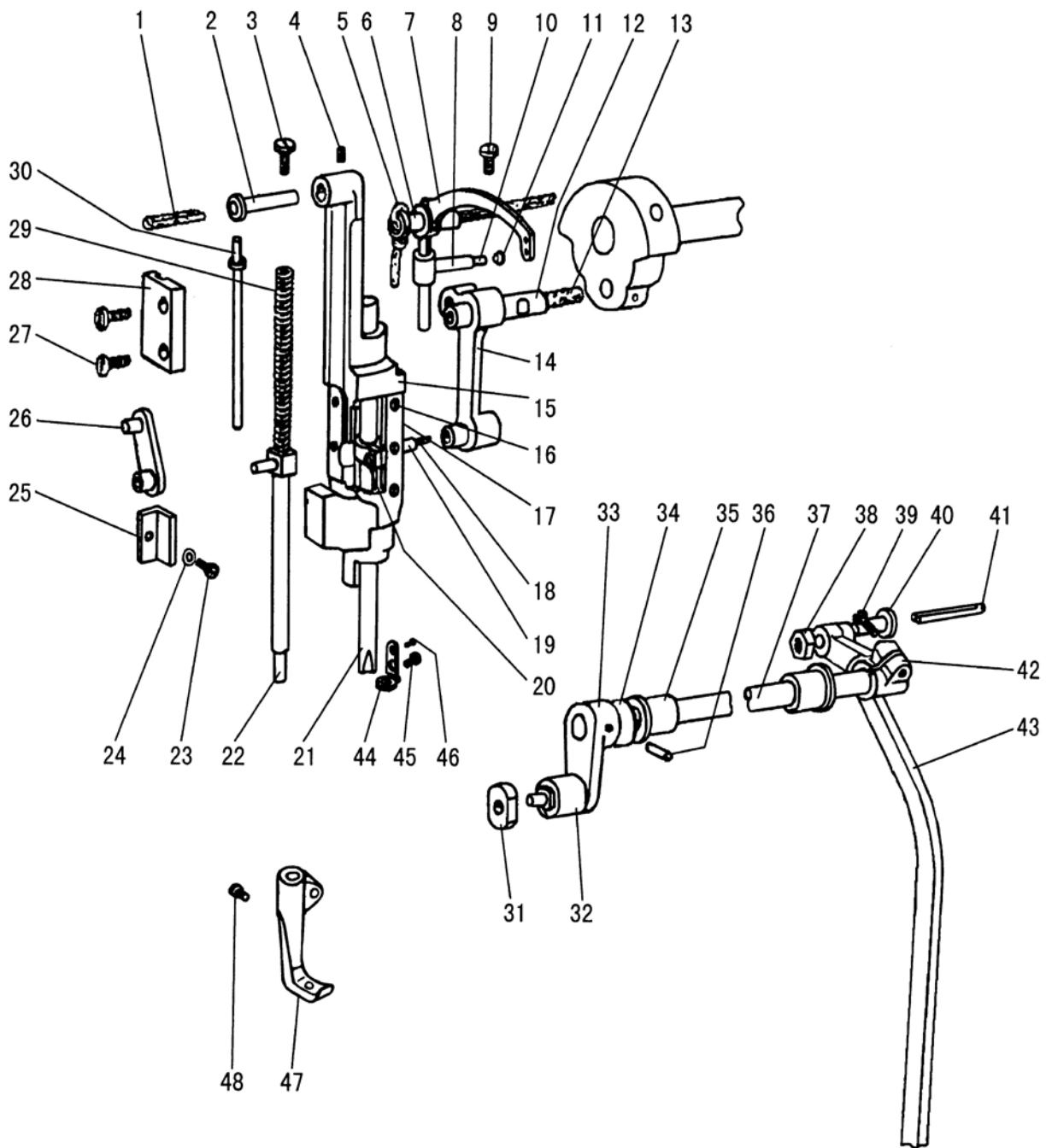
D.UPPER SHAFT & PRESSER FOOT MECHANISM

Fig. No.	Part No.	Description	Pcs.	Remarks
D01	H4705E8001	Feed lifting rock shaft	1	GB6170-86
D02	H4707E8001	Bushing	2	
D03	H0030550608	Nut	1	
D04	H4706E8001	Screw	2	
D05	H4709E8001	Crank	1	
D06	H3115F0671	Screw	1	
D07	H2013J0065	Washer	1	
D08	H2014J0066	Connecting rod	1	
D09	H2000J2100	Screw	1	
D10	H4713E8001	Oil wick	1	
D11	H20111C106	Holder	1	
D12	H007009250	C-type ring	1	
D13	H4714E8001	Eccentric	1	
D14	HA307C0662	Screw	2	
D15	H4732E8001	Screw	1	
D16	H4739E8001	Pin	1	
D17	H4735E8001	Link	1	
D18	H7104E8001	Link	1	
D19	H4741E8001	Collar	1	
D20	H4742E8001	Screw	1	
D21	H3100G2170	Screw	1	
D22	H4730E8001	Lever spring	1	
D23	H4729E8001	Screw	1	
D24	H4727E8001	Spring	1	
D25	H4728E8001	Knee lifting lever	1	
D26	H3100G2130	Screw	1	
D27	H4726E8001	Nut	1	
D28	H4725E8001	Screw	1	
D29	HA111G0683	Screw	2	
D30	H4723E8001	Guide plate	1	
D31	H4754E8001	Presser bar	1	
D32	H4744E8001	Bushing	2	
D33	H3200E2020	Screw	1	
D34	H4746E8001	Spring bracket	1	
D35	H4768E8001	Plate	1	
D36	H2404I0034	Screw	1	
D37	H4748E8001	Lifter lever	1	
D38	H4767E8001	Spring	1	
D39	H4752E8001	Bracket	1	
D40	H4749E8001	Screw	1	
D41	H4715E8001	Bell crank	1	
D42	H2004J0655	Support shaft	1	
D43	H4717E8001	Roller	1	

D.UPPER SHAFT & PRESSER FOOT MECHANISM

Fig. No.	Part No.	Description	Pcs.	Remarks
D44	H4718E8001	Screw	1	
D45	H2004J0662	Screw	1	
D46	H4719E8001	Link	1	
D47	HA100E2150	Screw	2	
D48	H4722E8001	Washer	2	
D49	H4721E8001	Guide	1	
D50	H4753E8001	Screw	1	
D51	H4708D8001	Screw	2	
D52	H7105E8001	Lifting presser foot	1	

E.TAKE-UP THREAD AND ARM SHAFT MECHANISM



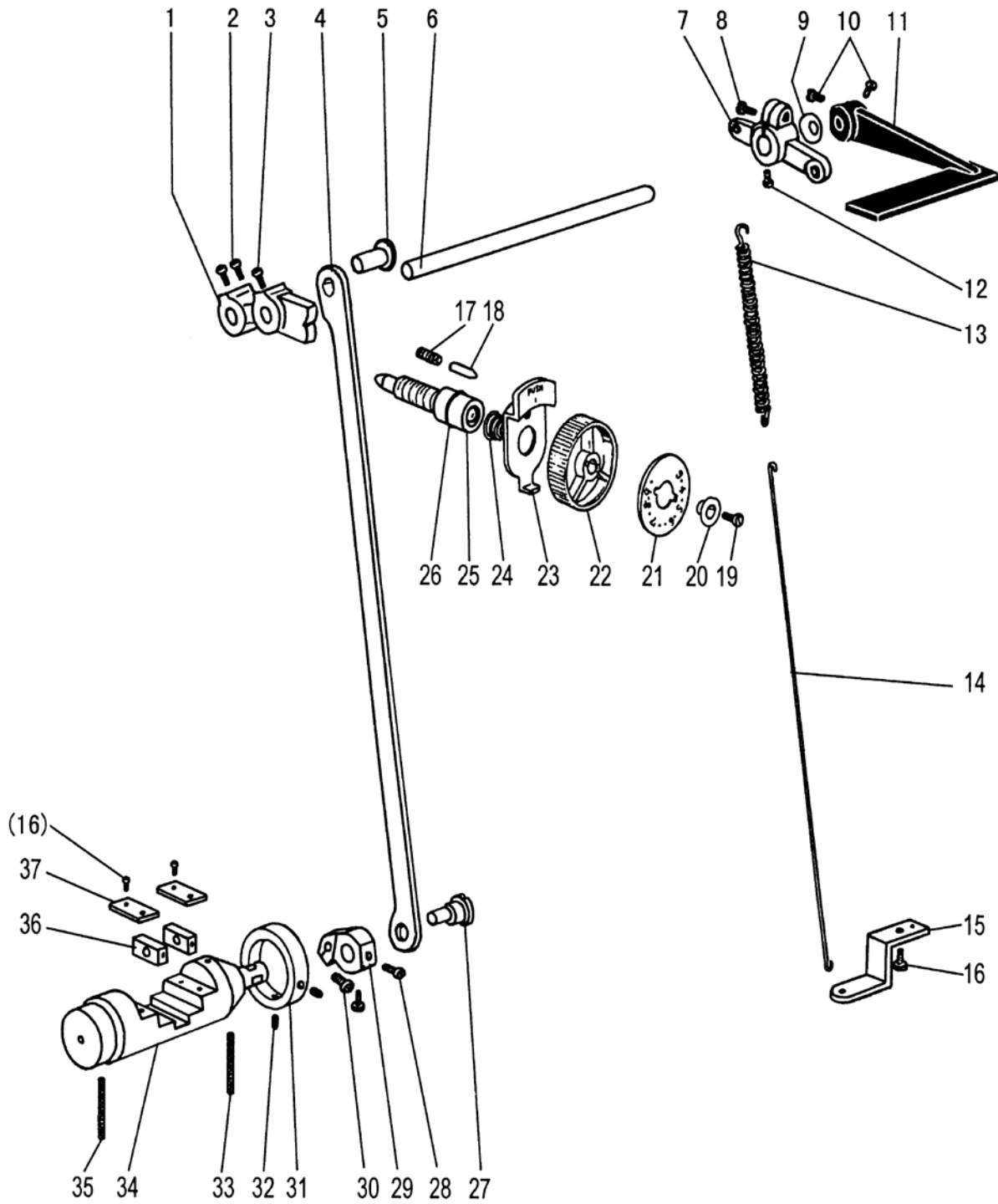
E.TAKE-UP THREAD AND ARM SHAFT MECHANISM

Fig. No.	Part No.	Description	Pcs.	Remarks
E01	H2405D1122	Oil wick	1	
E02	H4706F8001	Needle bar guide bracket stud	1	
E03	H4707F8001		1	
E04	HA100C2020	Set screw	1	
E05	H2405D1122	Oil wick	1	
E06	H2405D1121	Thread take-up lever support stud	1	
E07	H4712F8001	Thread take-up lever	1	
E08	H2405D1112	Thread take-up slide brock	1	
E09	HA110D0672	Screw	1	
E10	H24211D405	Oil wick	1	
E11	H24211D305	Plug	1	
E12	H2405D0662	Needle bar crank pin	1	
E13	H4716F8001	Oil wick	1	
E14	H4717F8001	Connecting link	1	
E15	H4719F8001	Needle bar guide bracket stud	1	
E16	H32111D304	Screw	6	
E17	H4721F8001	Spacer	2	
E19	H4722F8001	Needle bar connecting stud	1	
E20	H32111D604	Screw	1	
E21	H4806F8001	Needle bar	1	
E22	H4725F8001	Vibrating presser bar	1	
E23	H3400C2020	Bolt	1	
E24	H3200I2030	Washer	1	
E25	H3400C2010	Needle bar guide	1	
E26	H4726F8001	Vibrating presser bar link	1	
E27	H4753E8001	Screw	2	
E28	H4728F8001	Guide	1	
E29	H4729F8001	Spring	1	
E30	H4730F8001	Vibrating presser spring guide	1	
E31	H3410C301P	Square blcok	1	
E32	H3406C0671	Screw	1	
E33	H3406C0672	Needle bar vibrating crank(left)	1	
E34	H4734F8001	Waher	1	
E35	H3204B0652	Bushing	2	
E36	H602040240	Taper pin	1	
E37	H4736F8001	Needle bar vibrating shaft	1	
E38	H32311D506	Nut	1	
E39	H2012N0652	Screw	1	
E40	H32311D306	Screw	1	
E41	H32311D406	Oil wick	1	
E42	H3407C0661	Needle bar vibrating crank(right)	1	
E43	H8605F8001	Link	1	
E44	H3129F0693	Thread guide	1	

E.TAKE-UP THREAD AND ARM SHAFT MECHANISM

Fig. No.	Part No.	Description	Pcs.	Remarks
E45	HA100C2170	Screw	1	
E46	H3129F0691	Screw	1	
E47	H7106F8001	Vibrating presser foot	1	
E48	HA700F2100	Screw	1	

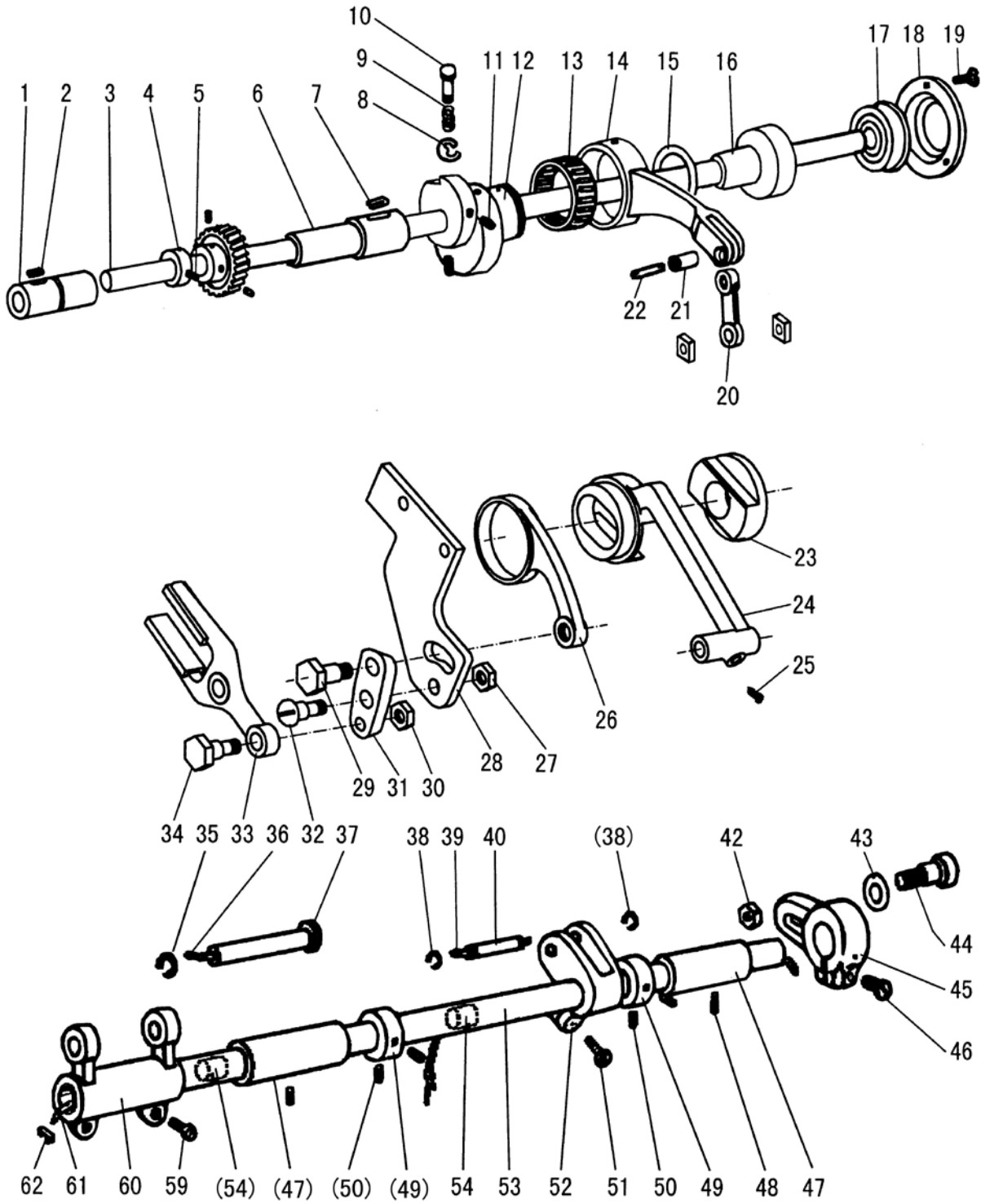
F.STITCH REGULATOR MECHANISM



F.STITCH REGULATOR MECHANISM

Fig. No.	Part No.	Description	Pcs.	Remarks
F01	H4706G8001	Feed regulator	1	
F02	HA113F0684	Screw	2	
F03	H3200F2020	Screw	1	
F04	H7104G8001	Link	1	
F05	HA100G2070	Eccentric shaft	1	
F06	H4709G8001	Reverse stitch crank	1	
F07	H3207F0671	Reverse stitch crank	1	
F08	HA800F2020	Screw	1	
F09	HA100F2110	Washer	1	
F10	HA113F0684	Screw	2	
F11	H4711G8001	Feed reversing lever	1	
F12	H3207F0672	Screw	1	
F13	H4710G8001	Spring	1	
F14	H7105G8001	Link	1	
F15	H3200F2050	Spring bracket	1	
F16	HA300C2030	Screw	1	
F17	H3200F2110	Spring		
F18	HA700F2030	Stopper pin		
F19	HA720F0686	Screw	1	
F20	HA720F0685	Bushing	1	
F21	H7107G8001	Stitch length indicating plate	1	
F22	HA7421F120	Dial	1	
F23	HA720F0683	Plate	1	
F24	HA720F0687	Spring	1	
F25	HA109F0671	Screw bar	1	
F26	HA109F0674	O-ring	1	
F27	H3206F0662	Pin	1	
F28	H415050060	Screw	2	M5×6
F29	H7109G8001	Reverse stitch shaft crank	1	
F30	H415050200	Screw	1	M5×20
F31	H4716G8001	Bushing	1	
F32	HA3411D308	Screw	2	
F33	H4719G8001	Felt	1	
F34	H4720G8001	Reverse block	1	
F35	H4721G8001	Felt	1	
F36	H4722G8001	Square block	2	
F37	H4723G8001	Guide plate	2	

G.LOWER SHAFT & FEED ROCK SHAFT MECHANISM



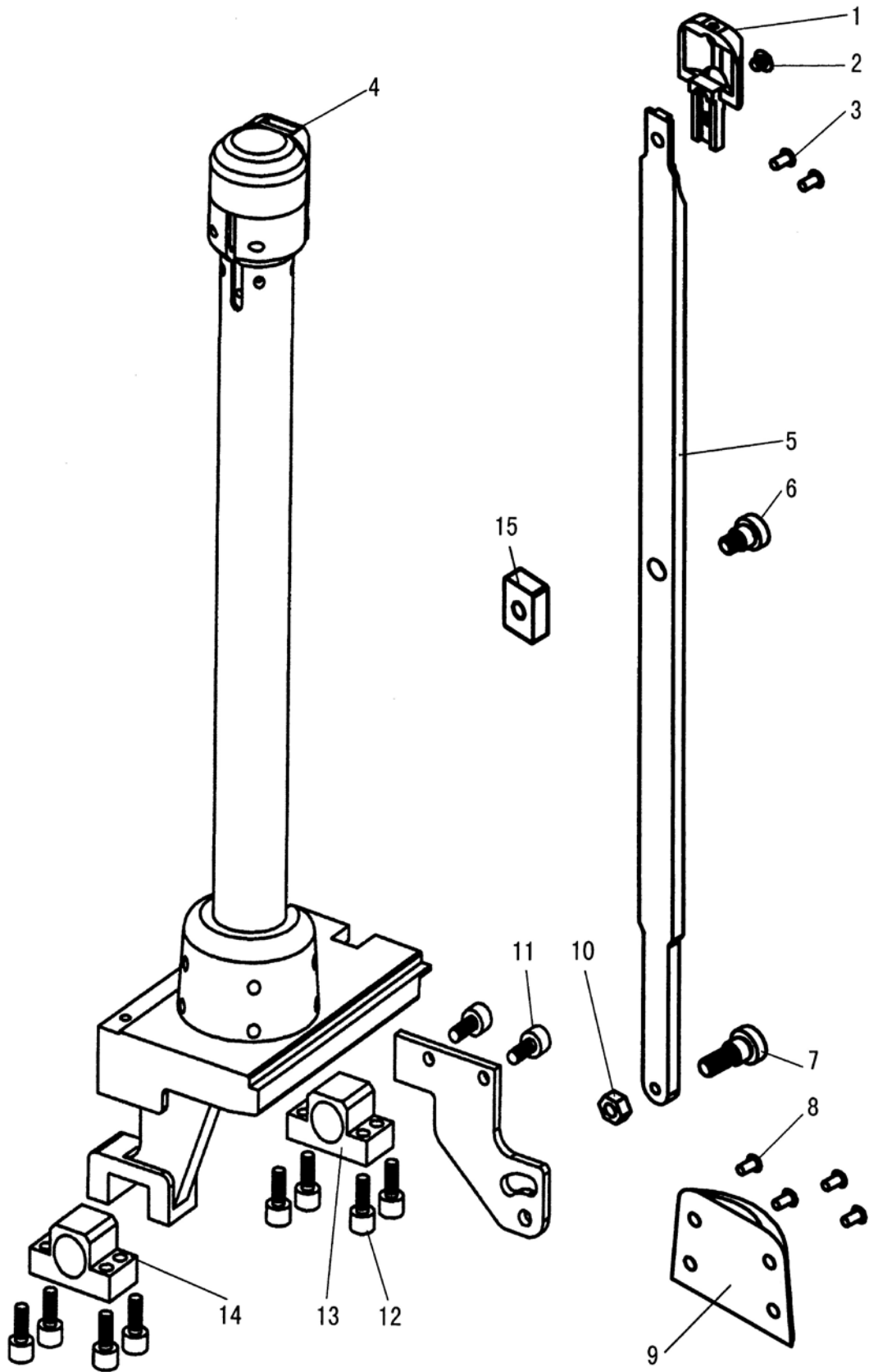
G.LOWER SHAFT & FEED ROCK SHAFT MECHANISM

Fig. No.	Part No.	Description	Pcs.	Remarks
G01	H4706H8001	Lower shaft bushing(left)	1	
G02	H4707H8001	Oil wick	1	
G03	H7107H8001	Lower shaft	1	
G04	H8615H8001	Feed lifting cam	1	
G05	H3205H0654	Screw	1	SM1/4 (40) ×5
G06	H8618H8001	Lower shaft bushing(right)	1	
G07	H4713H8001	Oil wick	1	
G08	H007013050	E-type ring	2	
G09	H4714H8001	Spring	1	
G10	H4715H8001	Push button	1	
G11	H2405D0664	Screw	1	
G12	H4717H8001	Feed eccentric	1	
G13	H4719H8001	Bearing	1	NTN 7E-HMK 2616D
G14	H4718H8001	Feed connecting rod	1	
G15	H007009260	Retaining ring C-type	1	
G16	H4722H7101	Lower shaft bushing complete	1	
G17	H4726H8001	Bearing	1	NTN 6203Z
G18	H4727H8001	Bearing holder	1	
G19	HA7311C306	Screw	3	
G20	H4737H8001	Link	1	
G21	H4721H8001	Pin	1	
G22	H4720H8001	Oil wick	1	
G23	H8610H8001	Guide bracket	1	
G24	H8609H8001	Link	1	
G25	H429050050	Screw	1	
G26	H8608H8001	Link	1	
G27	H0030550608	Nut	1	
G28	H8605I8001	Support plate	1	
G29	H8613H8001	Screw	1	
G30	H4940L8001	Nut		
G31	H8614H8001	Crank	1	
G32	H8619H8001	Screw	1	
G33	H8606H8001	Bracket	1	
G34	H8620H8001	Screw	1	
G35	H007009070	Retaining ring C-type	1	
G36	H3205G0662	Oil wick	1	
G37	H32243G205	Feed bar shaft	1	
G38	H007013050	E-type ring	2	
G39	H4739H8001	Oil wick	1	
G40	H4738H8001	Pin	1	
G42	H0030550608	Nut	1	
G43	H4728H8001	Washer	1	
G44	H4729H8001	Screw	1	

G.LOWER SHAFT & FEED ROCK SHAFT MECHANISM

Fig. No.	Part No.	Description	Pcs.	Remarks
G45	H7105H8001	Feed connectiong crank(right)	1	
G46	H2012N0652	Screw	1	
G47	HA100G2120	Bushing	2	
G48	H4708D8001	Screw	2	
G49	HA108G0661	Collar	2	
G50	HA105D0662	Screw	4	
G51	H2012N0652	Screw	1	
G52	H4736H8001	Feed connection crank(middle)	1	
G53	H3204G0651	Feed rock shaft	1	
G54	H3204G0652	Felt	2	
G59	HA104G0012	Screw	2	
G60	H3205G1032	Feed connection crank	1	
G61	H3204G0031	Oil wick	1	
G62	H3200G2030	Clip	2	

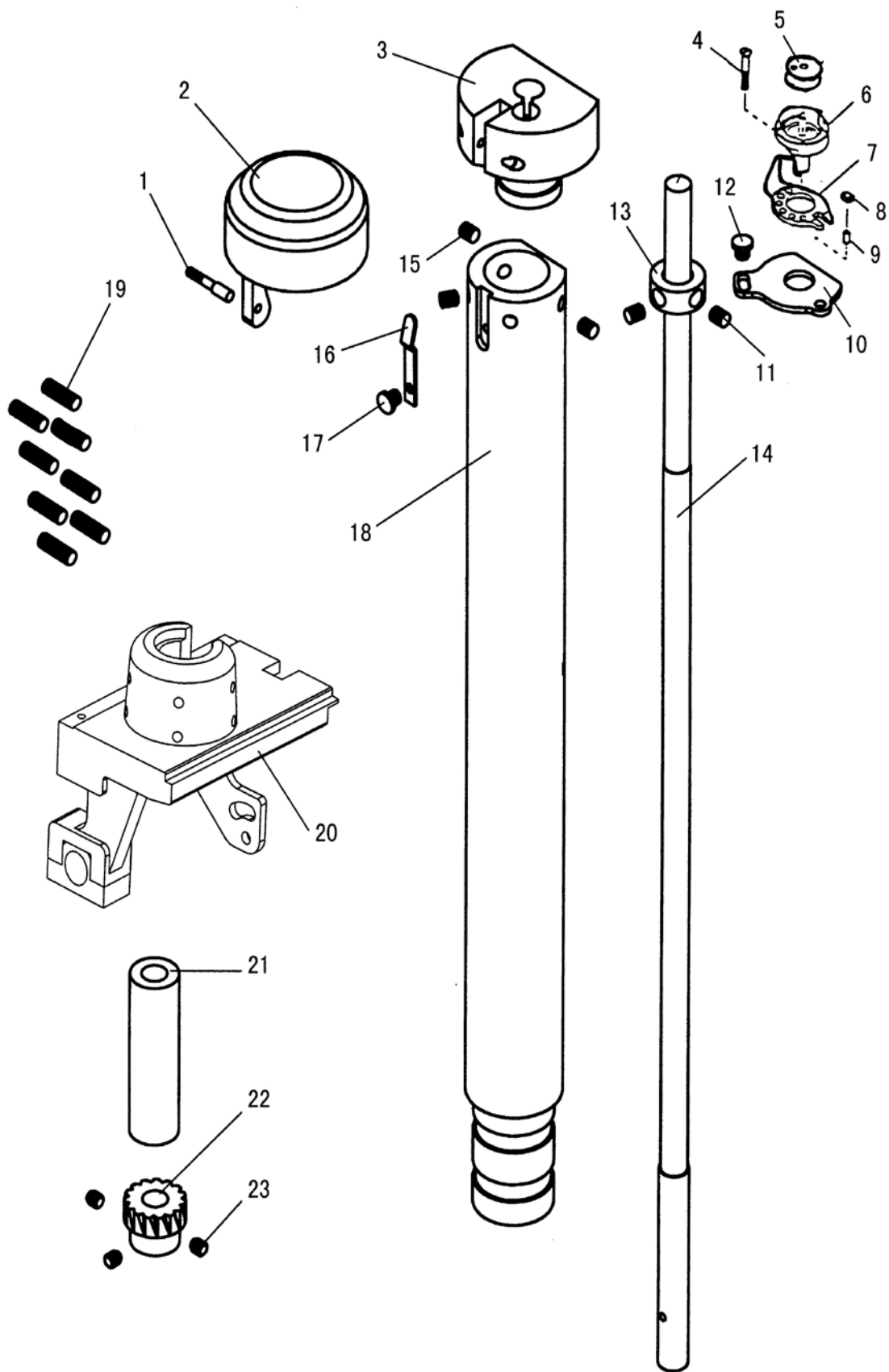
H.FEED BAR MECHANISM



H.FEED BAR MECHANISM

Fig. No.	Part No.	Description	Pcs.	Remarks
H01	H7107I8002	Feed dog	1	
H02	H7108I8001	Screw	1	
H03	HA100C2190	Screw	2	
H04	H7118B8002	Needle plate	1	
H05	H8604I8001	Feed bar	1	
H06	H7106I8001	Screw	1	
H07	H8607H8001	Screw	1	
H08	HA300B2160	Screw	4	
H09	H7109I8001	Cover plate	1	
H10	H3208G0675	Nut	1	
H11	H415060160	Screw	2	
H12	H415060200	Screw	8	
H13	H8616H8001	Bracket(right)	1	
H14	H8605H8001	Bracket(left)	1	
H15	H7105I8001	Slide block	1	

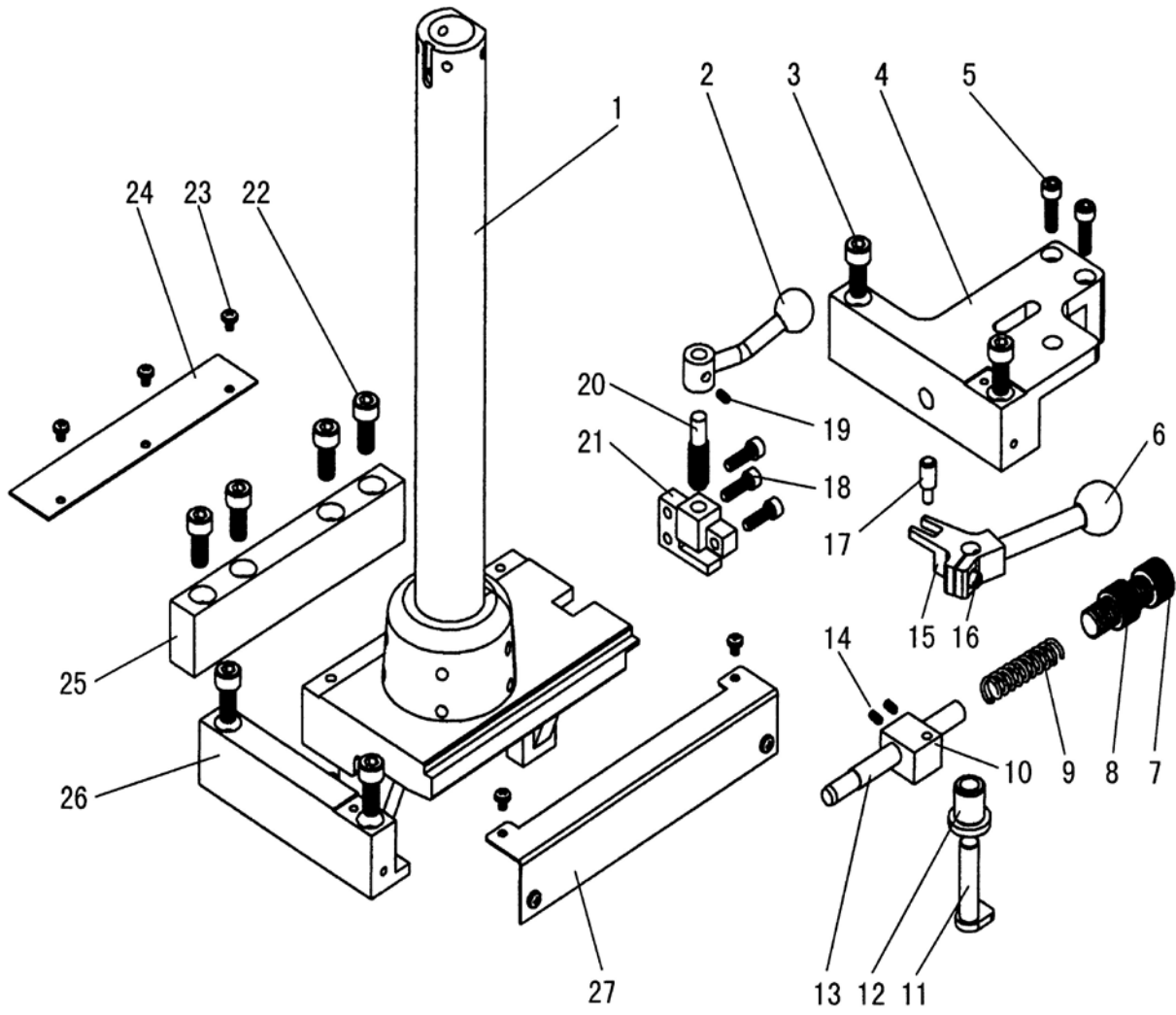
I.HOOK SADDLE MECHANISM



I.HOOK SADDLE MECHANISM

Fig. No.	Part No.	Description	Pcs.	Remarks
I01	H7124J8001	Screw	1	
I02	H7123J8001	Hook cover	1	
I03	H7109J8001	Hook saddle	1	
I04	H5337D8001	Screw	1	
I05	H2400I2020	Bobbin	1	
I06	H4114D0069	Hook complete	1	
I07	H7125J8001	Openner	1	
I08	H41622D216	Slide block	1	
I09	H410270D16	Pin	1	
I10	H7115J8001	Plate	1	
I11	HA105D0662	Screw	3	
I12	H2204C0651	Screw	1	
I13	H7106J8001	Collar	1	
I14	H7104J8001	Hook shaft	1	
I15	H3210F0681	Screw	4	
I16	H7122J8001	Spring	1	
I17	H3204D6511	Screw	1	
I18	H8604J8001	Hook saddle post	1	
I19	H428060160	Screw	8	M6 × 16
I20	H8605J8001	Bracket	1	
I21	H7121J8001	Bushing	1	
I22	H4705I8001	Hook gear(small)	1	
I23	HA105D0662	Screw	3	

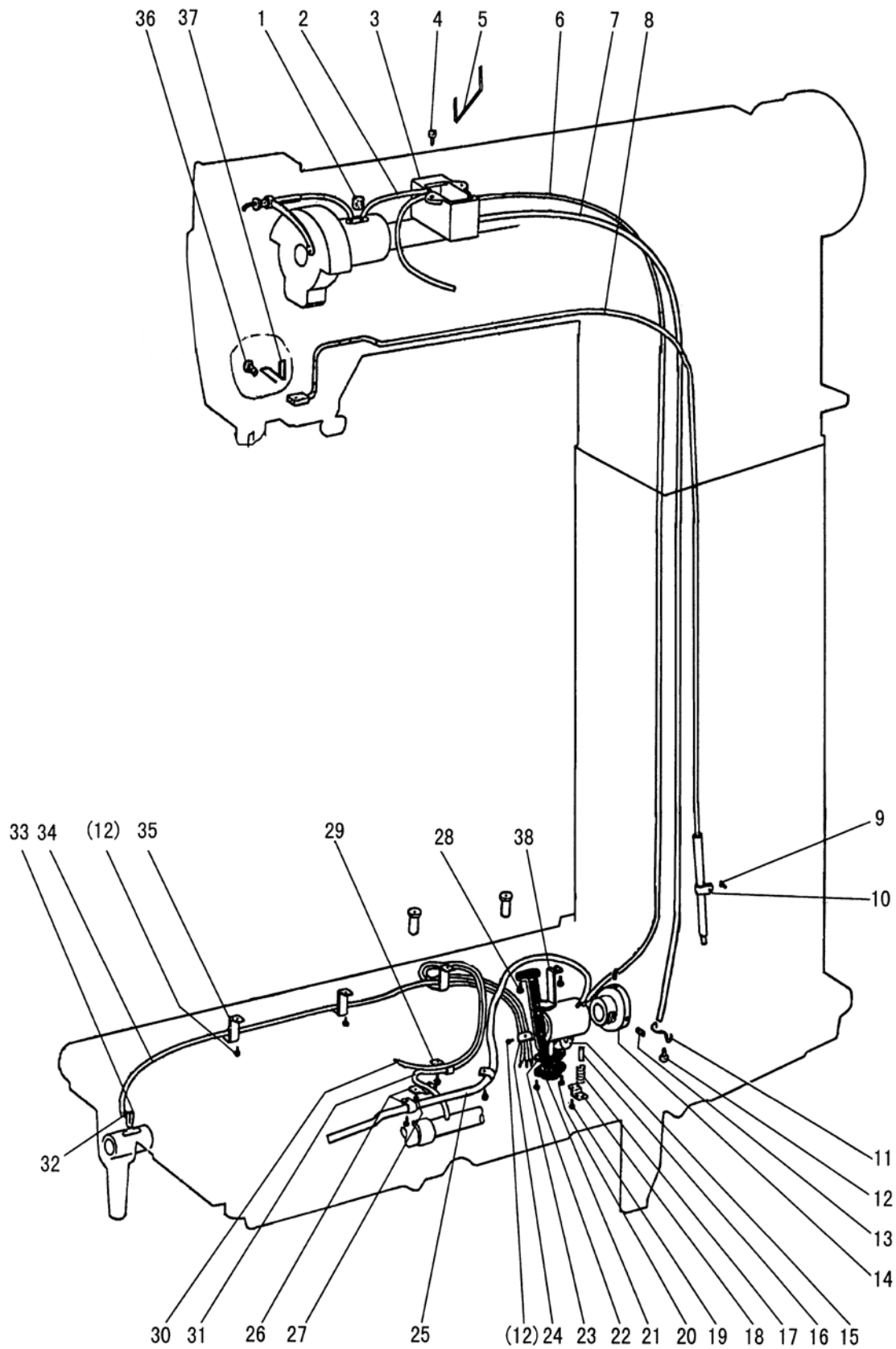
J.HOOK SADDLE SLANTING MECHANISM



J.HOOK SADDLE SLANTING MECHANISM

Fig. No.	Part No.	Description	Pcs.	Remarks
J01	H8604J8001	Hook saddle post	1	
J02	HF01060200	Ball	1	
J03	H415080350	Screw	2	
J04	H8629K8001	Position bracket(right)	1	
J05	H415060400	Screw	2	
J06	HF01080250	Ball	1	
J07	H8623K8001	Screw	1	
J08	H8622K8001	Nut	1	
J09	H8621K8001	Spring	1	
J10	H8619K8001	Connection block	1	
J11	H8616K8001	Eccentric shaft	1	
J12	H8617K8001	Bushing	1	
J13	H8618K8001	Pin	1	
J14	H429050050	Screw	2	
J15	H8624K8001	Spanner bracket	1	
J16	H4753E8001	Screw	1	
J17	H8620K8001	Connection pin	1	
J18	H415050120	Screw	3	
J19	H429050050	Screw	2	
J20	H8627K8001	Pin	1	
J21	H8626K8001	Position bracket	1	
J22	H415080350	Screw	6	
J23	HA300B2170	Screw	7	
J24	H8632K8001	Cover plate(back)	1	
J25	H8630K8001	Position bracket(back)	1	
J26	H8631K8001	Position bracket(left)	1	
J27	H8633K8001	Cover plate(front)	1	

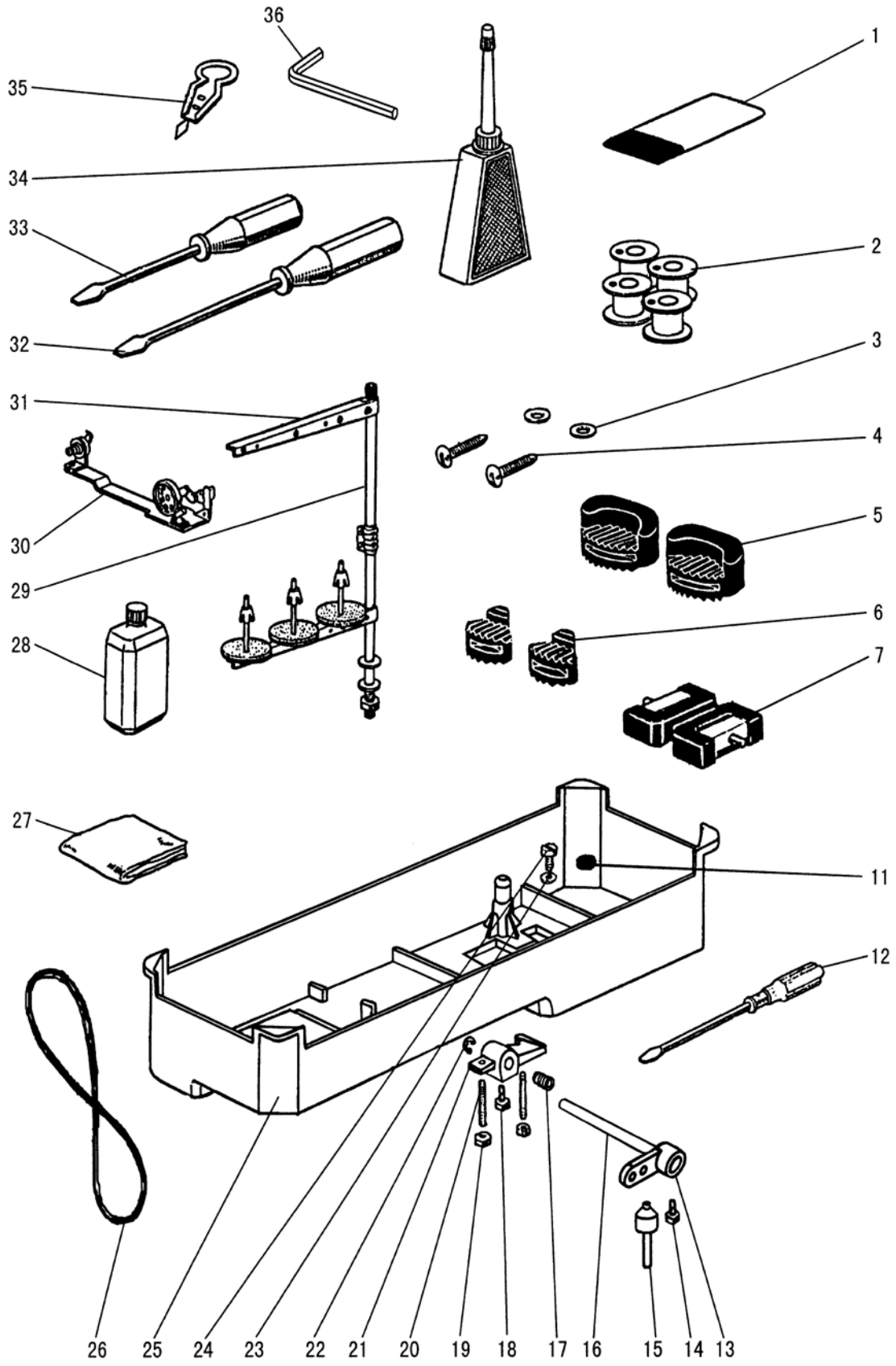
K.OIL LUBRICATION MECHANISM



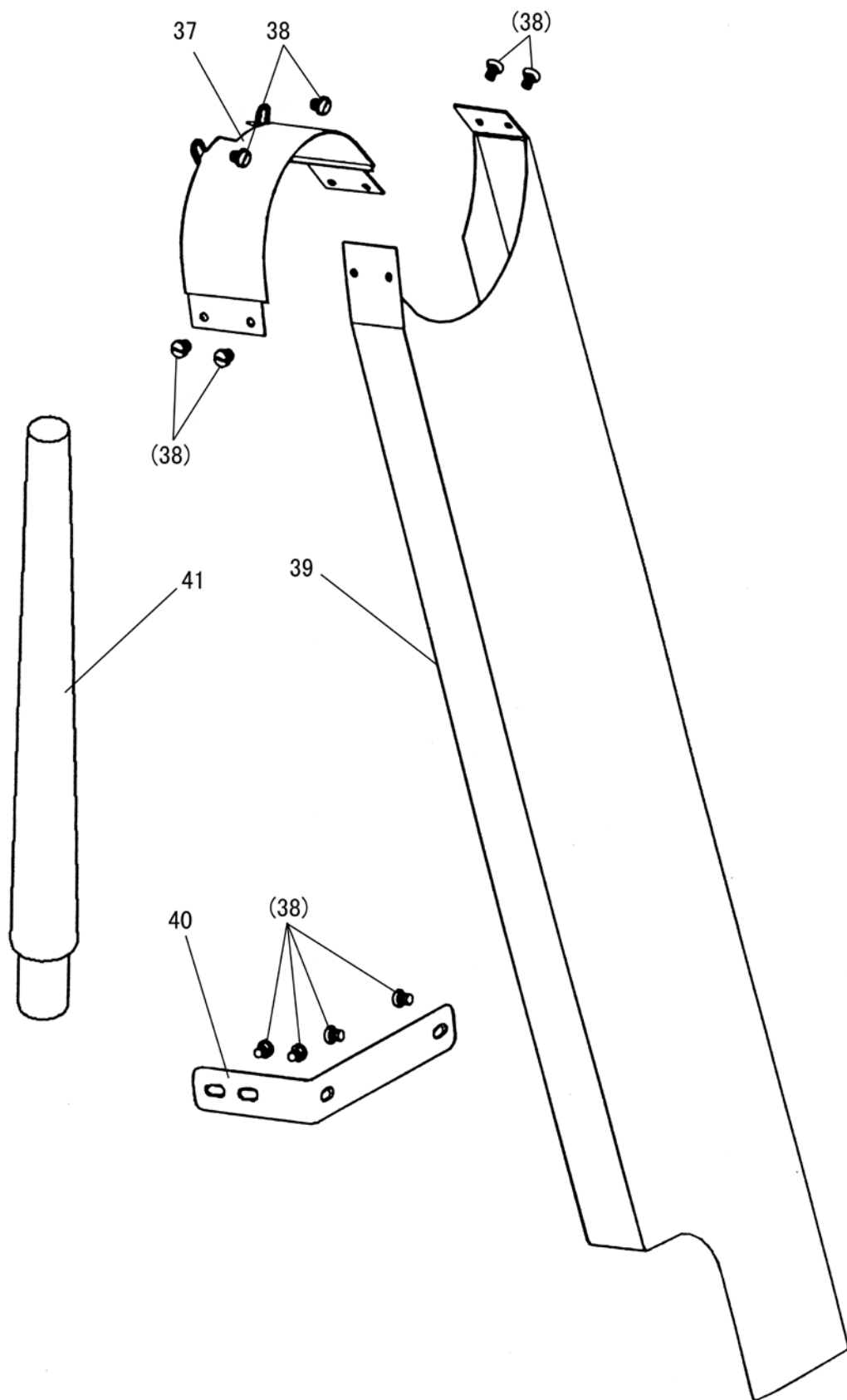
K.OIL LUBRICATION MECHANISM

Fig. No.	Part No.	Description	Pcs.	Remarks
K01	H32175B304	Felt	1	
K02	H4705J7101	Oil pipe complete	1	
K03	H3204K0011	Oil reservoir complete	1	
K04	H411040160	Screw	2	
K05	H4707J8001	Holder	1	
K06	H7109K8001	Oil pipe	1	
K07	H7110K8001	Oil pipe	1	
K08	H7111K7101	Oil pipe complete	1	
K09	HA7311CC06	Screw	1	
K10	HA100I2050	Spring washer	1	
K11	H2000M0110	Holder	1	
K12	HA106B0676	Holder	8	
K13	H3230K0751	Screw	2	
K14	H4716J8001	Bushing	1	
K15	H3215K0696	Oil pipe	1	
K16	H1100I2070	Pin	1	
K17	H1100I2090	Spring	1	
K18	H1100I2110	Spring holder	1	
K19	H3204D6510	Screw	1	
K20	H3215K0693	Screw	1	
K21	H3215K0692	Filter	1	
K22	H3215K0694	Screw	1	
K23	H4718J7101	Mounting plate complete	1	
K24	H4720J8001	Holder	1	
K25	H3216K0702	Oil pipe	1	
K26	H2000M0110	Holder	1	
K27	HA106B0676	Screw	3	
K28	HA100E2150	Screw	1	
K29	H4731J8001	Holder	1	
K30	H4805J8001	Oil pipe	1	
K31	H4728J7101	Oil pipe complete	1	
K32	H3216K0070	Oil pipe complete	1	
K33	H3216K0701	Oil wick	1	
K34	H3200K0180	Oil wick	1	
K35	H4726J8001	Oil pipe	1	
K36	H3200K0160	Holder	1	
K37	HA100C2040	Screw	1	
K38	H4722J8001	Support plate	1	

L.ACCESSORIES



L.ACCESSORIES



L.ACCESSORIES

Fig. No.	Part No.	Description	Pcs.	Remarks
L01		Needle	4	DP×17 22#
L02	H2400I2020	Bobbin	4	
L03	HA300J2230	Washer	2	
L04	H801045200	Screw	2	
L05	H4700K0020	Vibration preventing rubber	2	
L06	H4700K0030	Vibration preventing rubber	2	
L07	HA110J0070	Hinge complete	1	
L11	HA100J2120	Magnet block for reservoir	1	
L12	HA300J2200	Screw drive(middle)	1	
L13	H7122L8001	Crank	1	
L14	HA300J2180	Screw	1	
L15	H3214L2011	Support stud complete	1	
L16	H7119L8001	Shaft	1	
L17	HA104J0657	Spring	1	
L19	HA104J6510	Nut	2	
L20	HA104J0659	Screw	2	
L21	H3213L0664	Knee lifter crank	1	
L22	H007013090	E-type ring	1	
L23	HA104J0653	Washer	1	
L24	HA104J0652	Screw	1	
L25	H3213L0661	Oil reservoir	1	
L26	750	V-belt	1	M75
L27	H7114L8001	Vinyl cover	1	
L28	HA300J2170	Oil tank	1	
L29	H7112L8001	Stand pipe	1	
L30	HA706S0067	Bobbin winder	1	
L31	HA200J2030	Thread stand	1	
L32	HA300J2070	Screw drive(big)	1	
L33	HA300J2210	Screw drive(small)	1	
L34	HA100J2110	Oiler	1	
L35	H3207L0065	Thread needle kit	1	
L36	HB00001025	Socket wrench	1	
L37	H200800068	Belt cover	1	
L38	HA300B2170	Screw	6	
L39	H7115L8001	Belt cover	1	
L40	H7123L8001	Belt cover stand	1	
L41	H7124L8001	Support	1	

SHANGHAI BIAOZHUN HAILING SEWING MACHINERY CO., LTD.

ADD: NO.850 Shulin Road, Songjiang District Shanghai, P.R.China

Zip Code: 201612

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

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

The description covered in this manual is subject to change for improvement of the commodity without notice

2019.5. Printed