



HIGHLEAD

GC20618-1DZA/-2DZA

**Direct Drive Heavy Duty Compound Feed
Lockstitch Sewing Machine With Automatic
Thread Trimmer**

**Instruction Manual
Parts Catalog**

SHANGHAI BIAOZHUN HAILING SEWING MACHINERY CO.,LTD.

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.

2.SPECIFICATIONS

Model	GC20618-1DZA		GC20618-2DZA
Max.sewing speed	2500r.p.m		
Presser-foot stroke	Stitch length		9mm
	By hand	8mm	
	By pneumatic	17mm	
Alternating movement		2-6mm	
Needle size		DP×17 21#	
Lubrication system		Automatic lubrication	
Motor		750W sevor motor	
Needle gauge			6.4 standar

3.LUBRICATION

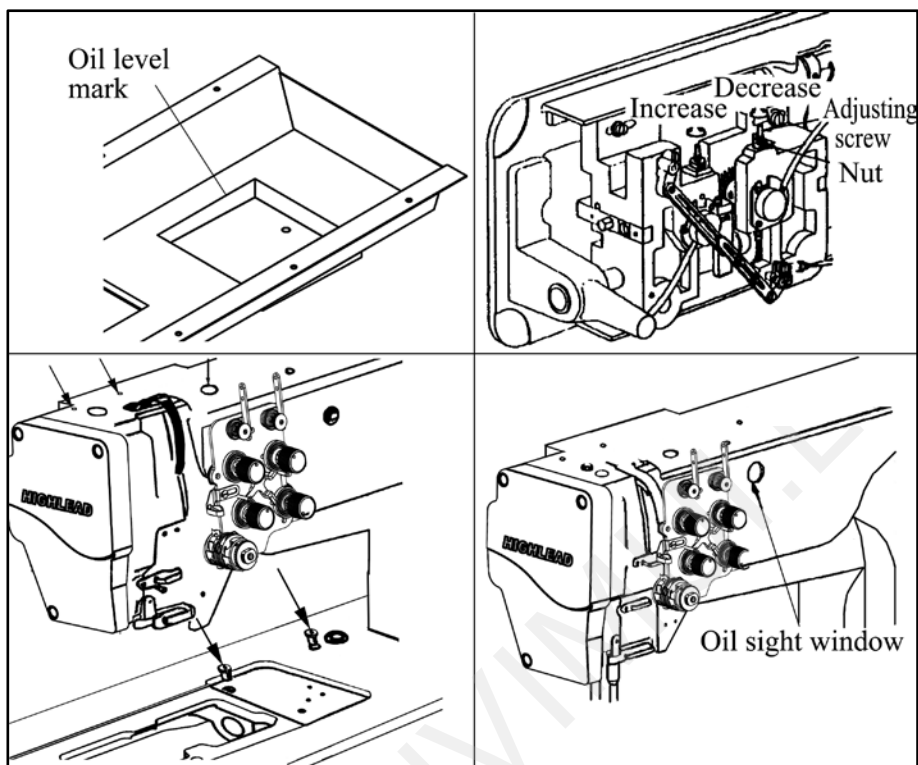
1) Oiling(1)

Fill the oil reservoir with oil up to oil level mark. Oil level should be periodically checked. If oil level is found below the level replenish oil to the oil level mark.

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.



Adjustment of oiling to rotating hook.

3) Oiling condition

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

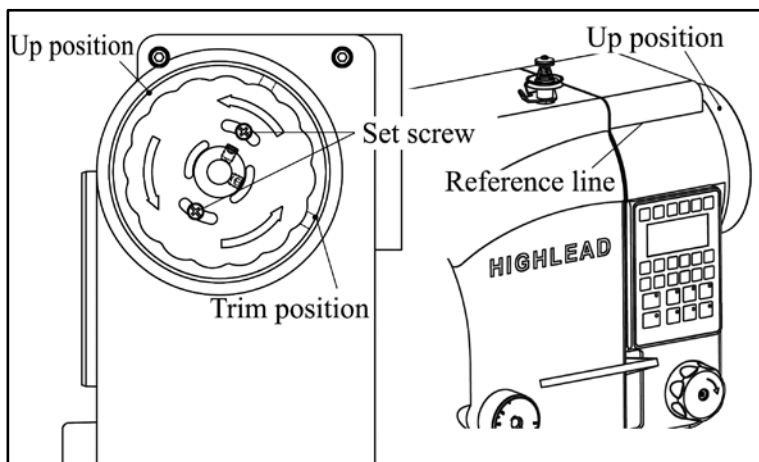
4.PRECAUTIONS OPERATION

- (1) When the power is turned on or off, keep foot away from the pedal.
- (2) It should be noted that the brake may 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.

5.ADJUSTMENT OF NEEDLE BAR STOP POSITION

When the pedal is kicked down by heel, the machine stop at "UP" position. If the marks deviate larger than 3mm, adjust as follows:

Release the set screw of the magnet

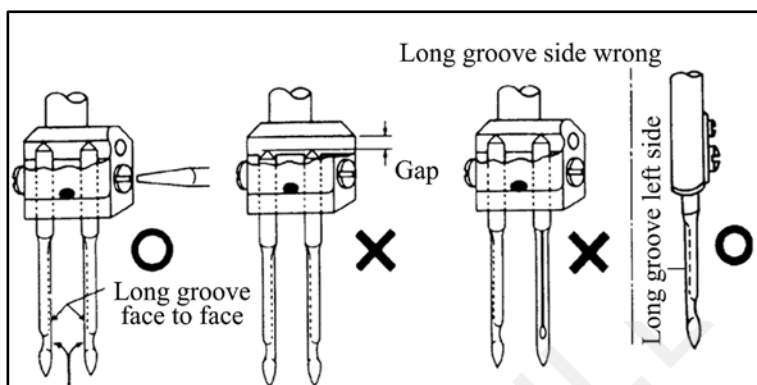


positioned piece, adjust the position of magnet positioning piece, until the machine stops in the needle up position (the marker on the pulley and the reference line of motor cover to coincide), then tighten the screws.

6.INSTALLING NEEDLE

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

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



7.WINDING BOBBIN THREAD

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

Thread tension: Particularly in the case of nylon or polyester thread,wind the bobbin loosely.

(1) Press the bobbin onto the thread winding shaft.

(2) Pass the thread for winding thread as shown in the figure, and wind the end of the thread clockwise around the bobbin several times, then wind the thread on the thread adjuster side counter-clock wise several times.

(3) Press lever 1 in the direction of the arrow, and start the sewing machine.

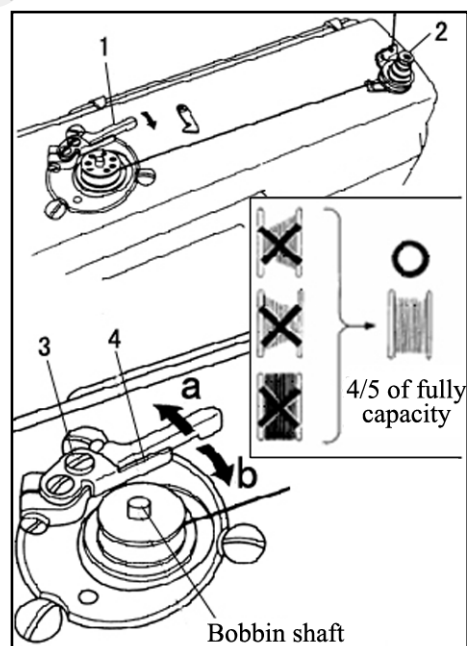
(4) The operation will automatically stop when winding is completed.

(5) Adjustment of thread winding strength, adjust with the thread adjuster nut 2.

(6) Adjustment of thread winding amount, adjust by loosening screw 3 and moving adjustment plate 4:

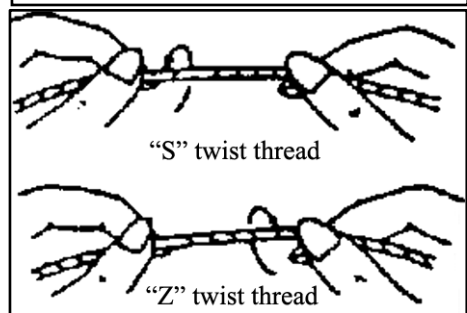
The thread winding amount will increase when moved in the direction of a.

The thread winding amount will decrease when moved in the direction of b.



8.SELECTION OF THREAD

It is recommended to use "S" twist thread in the left needle(viewed from front),and "Z" twist thread in the right needle.When discriminate use "Z" twist thread in both the needles.For bobbin thread,"S" twist thread as well as "Z" twist thread can be used.



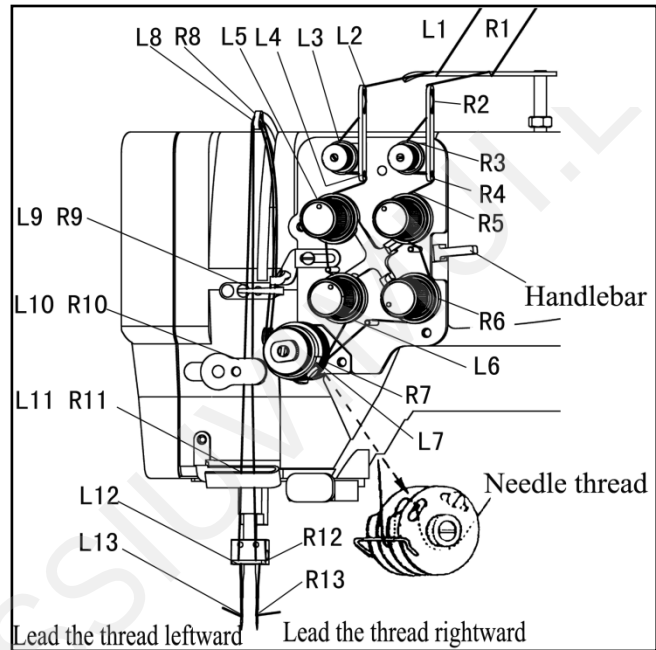
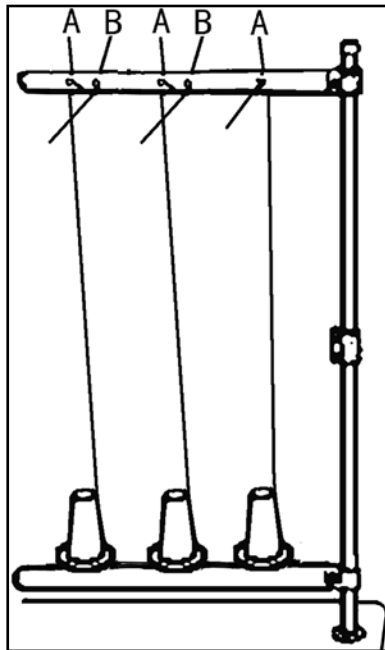
9.THREADING

(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 show in figure.

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

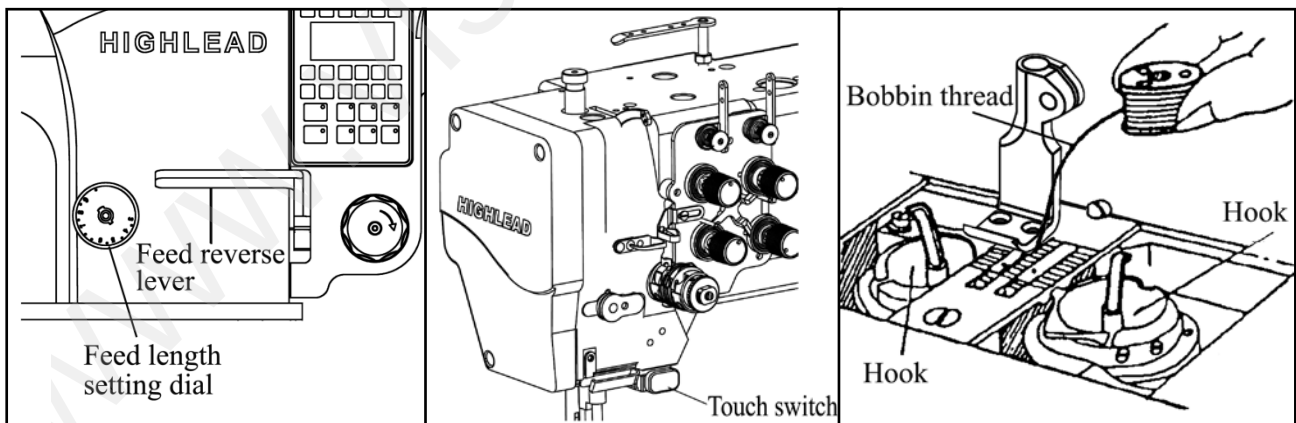
Note: Pressing the tension releasing handlebar , the thread can be pulled out easily.



10.ADJUSTMENT OF STITCH LENGTH AND REVERSE SEWING

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

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



11.SETTING OF BOBBIN

(1) Pulling out 5cm thread tail from the bobbin.

(2) Hold the bobbin so that the bobbin thread is would in right direction and put it into the hook.

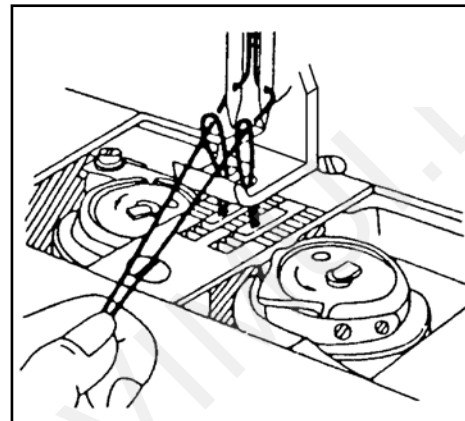
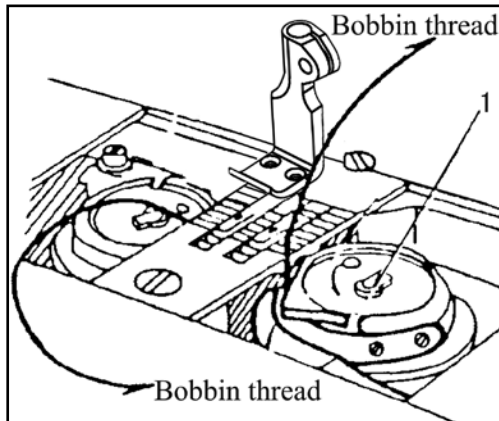
12.LIFTING THE BOBBIN THREAD

(1) Put the hook into the bobbin case and press down the latch 1.

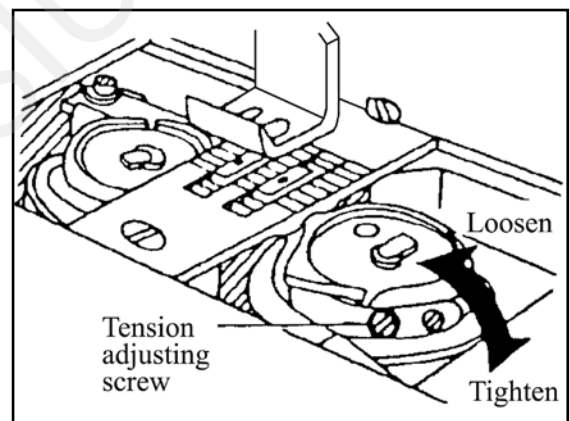
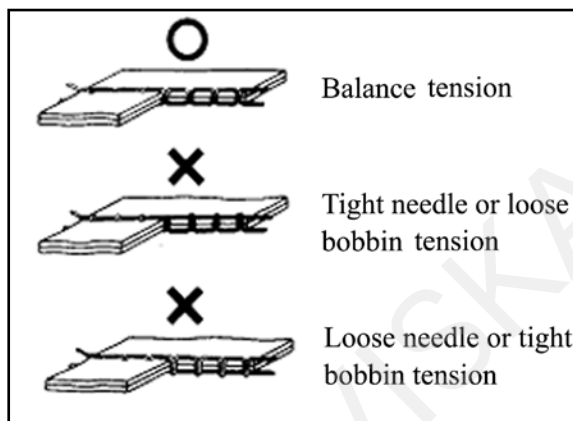
The thread end should be left on the bed.

(2) While holding the thread by left hand,rotate the balance wheel one turn by right hand.

By pulling up the needle thread,as shown in the figure,the bobbin thread will be lifted.The combination of bobbin thread and needle thread should be aligned and led backward.



13.BALANCE OF THREAD TENSION



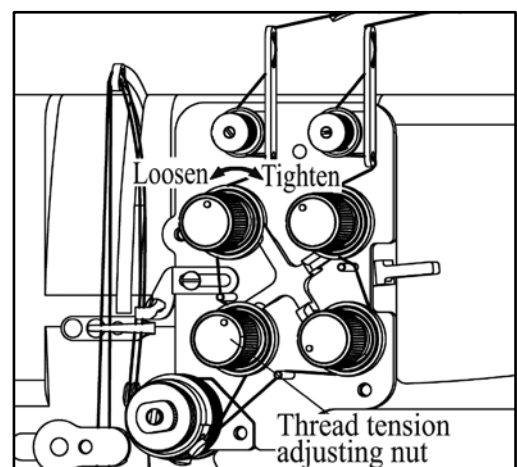
14.ADJUSTMENT OF THREAD TENSION

There is virtually no need to adjust the bobbin thread tension, except for special kind of the thread, when slight adjustment will be necessary.

Turning the adjusting screw clockwise will increase the tension of bobbin thread, otherwise, the tension of bobbin thread will decrease.

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

To adjust needle thread tension,turn each tension adjusting nut.

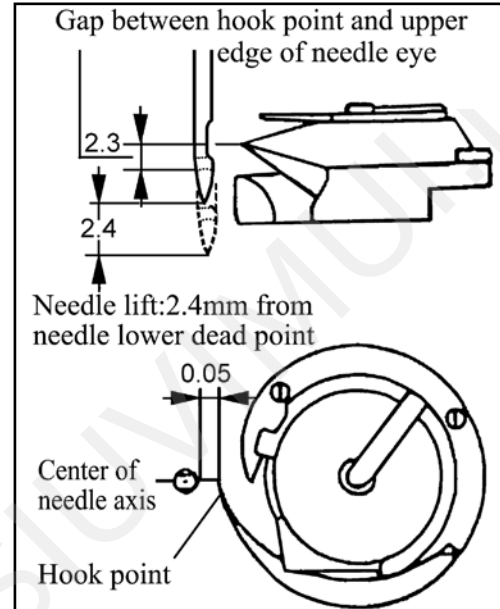
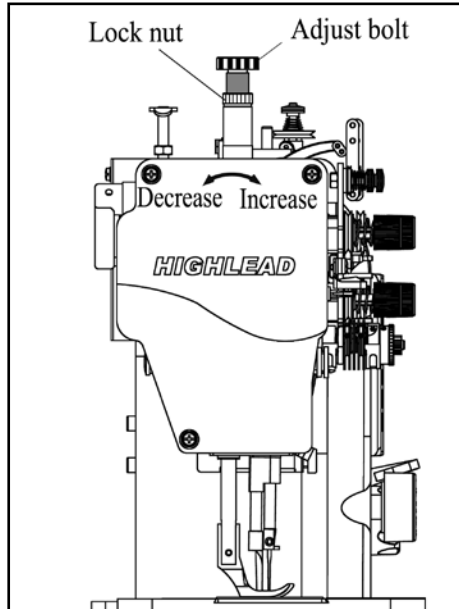


Needle thread tension can be also adjusted for special fabric and thread by changing intensity and movable range of slack thread adjusting spring.

15.ADJUSTMENT OF PRESSER FOOT PRESSURE

Pressure of presser foot is to be adjust in accordance with thickness of materials to be sewn.

First loosen lock nut.For heavy materials,turn the adjust bolt to increase the pressure,while for light materials,turn the adjust bolt to decrease the pressure as shown in Fig. After the adjustment.Tighten the lock nut.



16.TIMING BETWEEN ROTATING HOOK MOTION AND NEEDLE MOTION

(1) Set the stitch length to “6” on the stitch length dial.

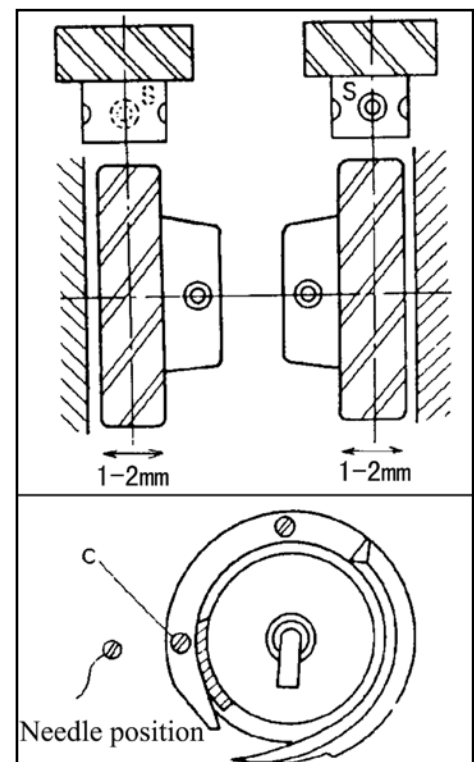
(2) When the needle is lifted 2.4mm from the lower dead point,the following positional relationship should be maintained:

- The lower edge of needle eye should be 2.3mm below the hook point.
- The center of the needle the hook point is on a line.
- Gap between the hook point and the side face of needle should be 0.05mm.

Note:Positioning of hook point

(1) When the needle is at DOWN position,the smaller gear should be engaged with the large gear so that the “S”screw of the latter gear on the reverse side.

(2) Tighten each “S”screw,where is punched for set screw,on the hook shaft.



(3) Approximate position of hook “C” screw of hook should be found close to the needle when the needle is at DOWN position.

To finely adjust timing between the needle motion and hook motion, loosen the set screw of large gear and move the hook saddle in lower shaft axial direction within a range from 1mm to 2mm.

17. ADJUSTMENT OF FEED DOG HEIGHT

Height of feed dog and pressure of presser foot should be adjusted for individual fabric(s) with the following cautions:

- (1) Fabric will be damaged if the feed dog extends too high, or pressure foot is too large.
- (2) Even stitch length cannot be assured if the feed dog is too low or pressure foot is too small.
- (3) Feed dog height should be measured at the point where the

needle is at the top position.

For light fabrics: Approx. 0.8mm from throat plate

For usual fabrics: Approx. 1.0mm from throat plate

For heavy fabrics: Approx. 1.2mm from throat plate

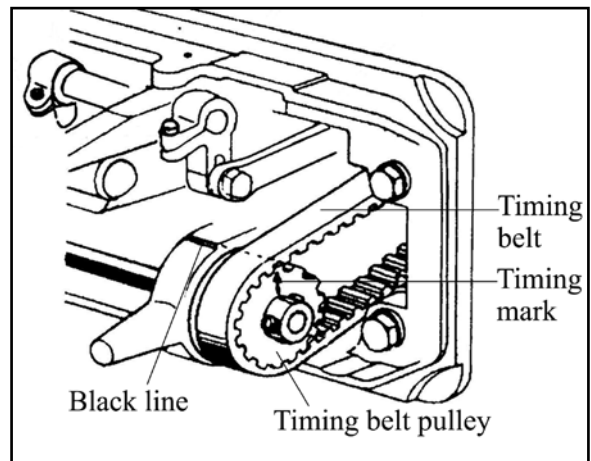
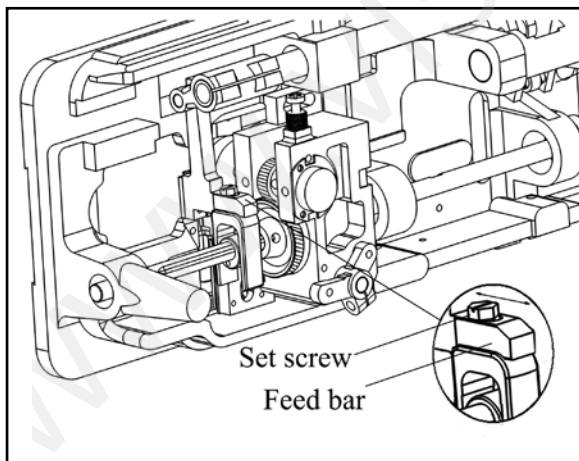
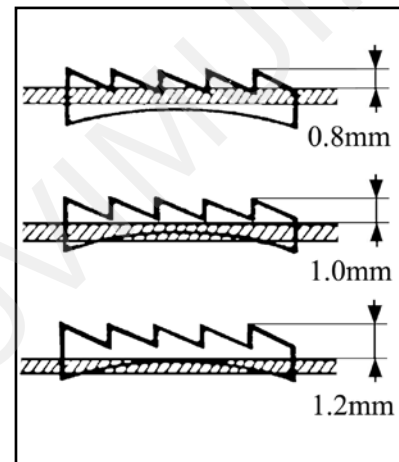
Adjustment procedure

- a. Lean the machine head backward.
- b. Turn the pulley by hand and stop when the feed dog rises to the maximum height.
- c. Loosen the feed bar set screw.

d. Vertically move the feed bar (in the direction indicated by arrow in the figure) to adjust it to adequate height.

- e. After the adjustment, tighten the feed bar set screw.

The feed dog height is factory-adjusted to 1.2mm.



18. RELATIONSHIP BETWEEN ROTATING HOOK MOTION AND TAKE-UP LEVER MOTION

When the timing belt was removed for its replacement, for example, the relationship between rotating hook

motion and take-up lever motion should be adjusted as follows:

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

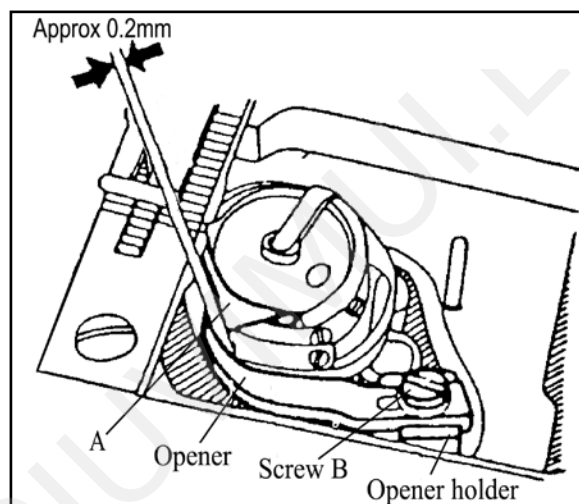
(3) If the timing mark is not in the line with the black,remove the timing belt and install it again to adjust.

19.RELATIONSHIP BETWEEN HOOK MOTION AND OPENER MOTION

(1) Turn the balance wheel by hand and stop when the opener holder is located most remotely from the throat plate.

(2) Make sure the gap between the bobbin case holder A and the opener is approximately 0.2mm.

(3) If the gap is too large or small,loosen the opener holder set screw B and adjust position of the opener.



20.RELATIONSHIP BETWEEN NEEDLE MOTION AND FEED DOG MOTION

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

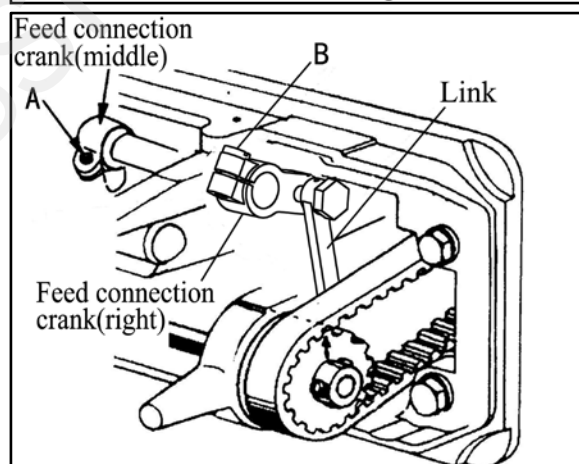
(2) Lean the machine head backward.

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

(4) Set the needle at the lowest position.

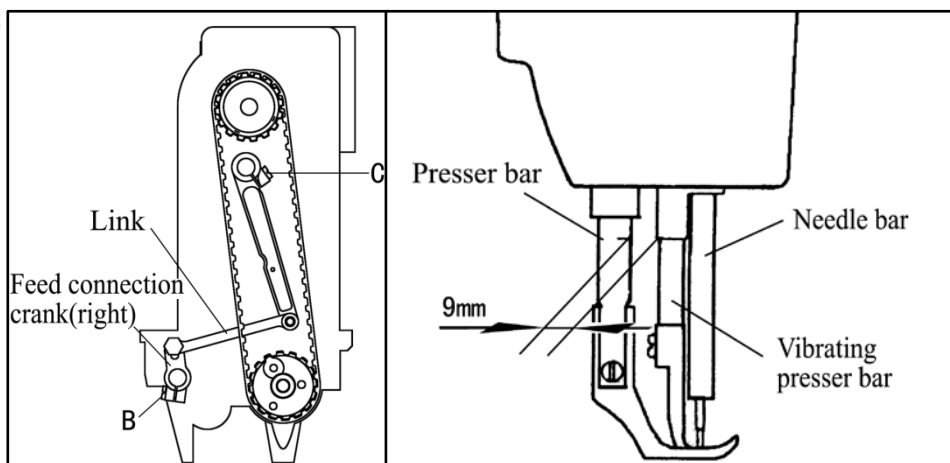
(5) Adjust the distance between presser rod and vibration prevention rod to 9mm and temporarily tighten the feed lifting rock shaft crank set screws A and B.

(6) If the connection is not at right angle,remove the back cover,loosen screw C and move the right link to adjust.



(7) After the completion of adjustment,fully tighten the screw A,B,C.

Note:At the same time make certain that needle can enter the feed dog needle hole at the center of the hole.



21.SAFETY CLUTCH DEVICE

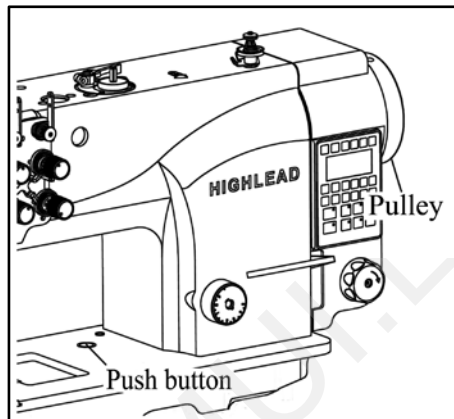
Safety clutch device is installed to prevent the hook and cog belt from damage in case the thread is caught into the hook when the machine is loaded abnormally during operation.

1) Function of safety clutch

(1) When the safety clutch acts, the belt pulley will be unloaded, then the rotation of hook shaft will stop. The arm shaft only will rotate. Stop the operation of machine.

(2) Clean the thread thoroughly which is caught into the hook.

(3) Turn the pulley bushing by hand, and check whether the hook shaft rotates lightly and properly, place the clutch device as follows.



2) How to set the safety clutch

(1) While pressing down the push button on the opposite side of bed by left hand, turn the balance wheel slowly by right hand away from you as shown in the figure.

(2) The balance wheel will stop by the gear plate, but turn the balance wheel more firmly.

(3) Release the push button.

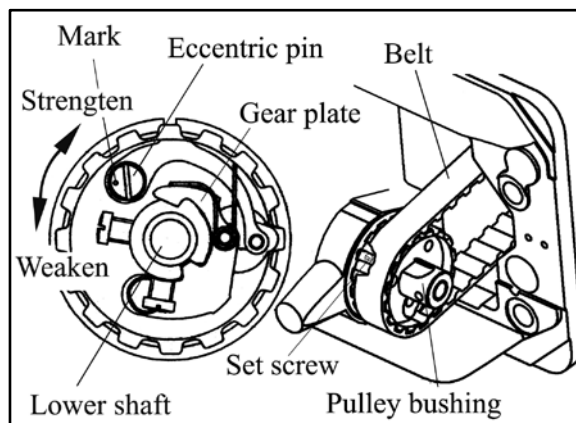
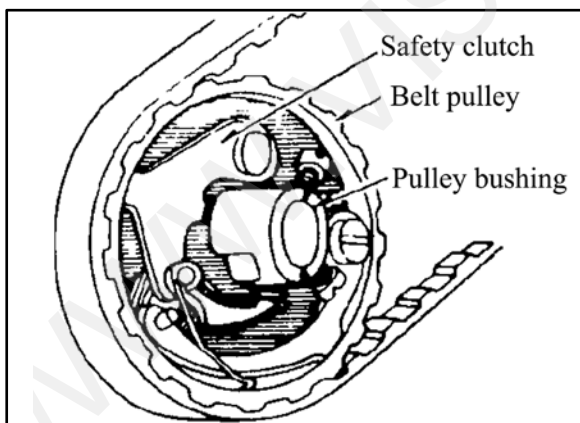
(4) As shown in the figure, the safety clutch device is set.

3) Force applied to the safety clutch

(1) The force applied to the safety clutch is the smallest when the white mark of the eccentric pin faces the center of the lower shaft. The force proportionally increases as the white mark faces the outside.

(2) To adjust the force, slide the timing belt, loosen the set screw, and turn the eccentric pin.

After the adjustment, make sure to tighten the set screw.



22.ADJUSTMENT OF THE UPPER FEED

If the uneven feeding occurs according to the fabric, adjust the long hole of the horizontal feed shaft crank(right) to adjust the upper feed length. Adjust as follows:

(1) Loosen the bolt.

(2) Move the bolt upward to increase upper feed.

(3) Move the special bolt downward to decrease the upper feed. The upper feed and the lower feed theoretically becomes equal at the reference line on the feed connection crank(right).

Securely tighten the bolt after adjustment.

23. WALKING FOOT AND PRESSER FOOT VERTICAL STROKE ADJUSTMENT

When fabric with large elasticity is sewn, or when thickness of fabric changes, the vertical stroke (movable range) of the presser feet should be adjusted as follows:

Adjustment:

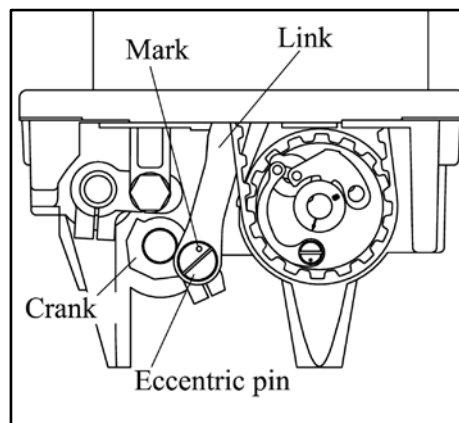
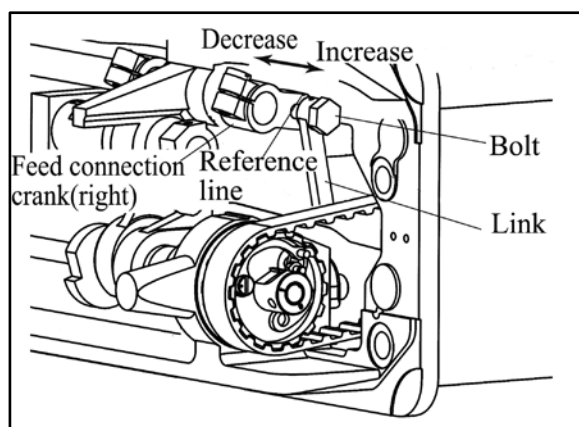
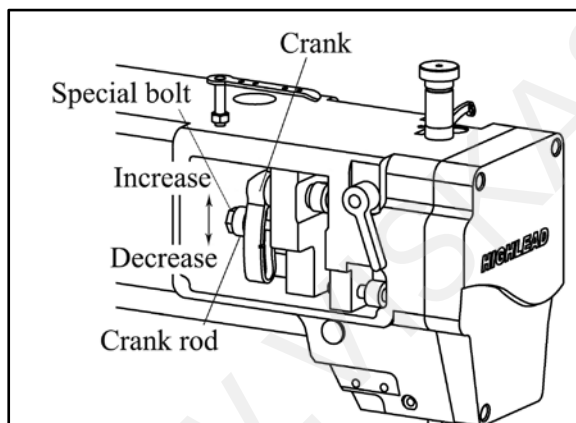
(1) Loosen the special bolt.

(2) The vertical strokes of the presser feet become maximum when the crank rod is moved upward and set.

(3) The vertical strokes become minimum when the nut is moved downward and set.

(4) After the adjustment, fully tighten the special bolt.

The vertical strokes of the presser feet can be adjusted within a range from 6mm to 2mm.



24. ADJUSTMENT THE STITCH TOLERANCE

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

25. INSTALLATION OF MOVABLE KNIFE

1) Installation of movable knife

(1) Turn the balance wheel and lower the needle bar to the lowest position.

(2) Push the cam follower crank so that the cam roller enters into the thread trimmer cam groove.

(3) Turn the balance wheel until the black mark point on the arm meets the white mark point on the

balance wheel. Set the cam follower crank at this position with a screwdriver temporarily preventing the cam roller coming out from the cam groove.

(4) Loosen the thread trimmer rocking crank clamp bolts A and B.

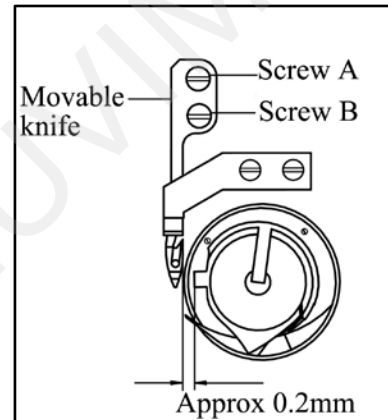
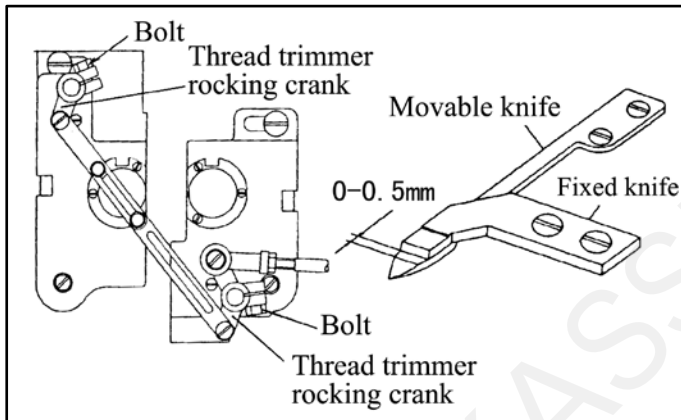
(5) Adjust the movable knife so that the movable knife end slant portion protrudes 0-0.5mm from the fixed knife, as shown in figure and tighten the bolts A and B.

2) Gap between movable knife and bobbin case holder stopper

(1) Turn the balance wheel by hand until needle reaches the lowest position.

(2) With the needle at the lowest position, depress cam follower crank, turn the balance wheel until the movable knife reaches the extremity of its stroke.

(3) Manually rotate the inner hook in the direction indicated by arrow in figure and adjust gap between the movable knife and the inner hook stopper to about 0.5mm (the screws A and B should be loosened for this adjustment).

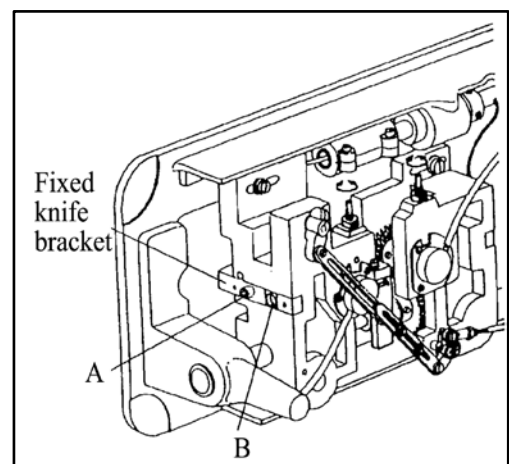
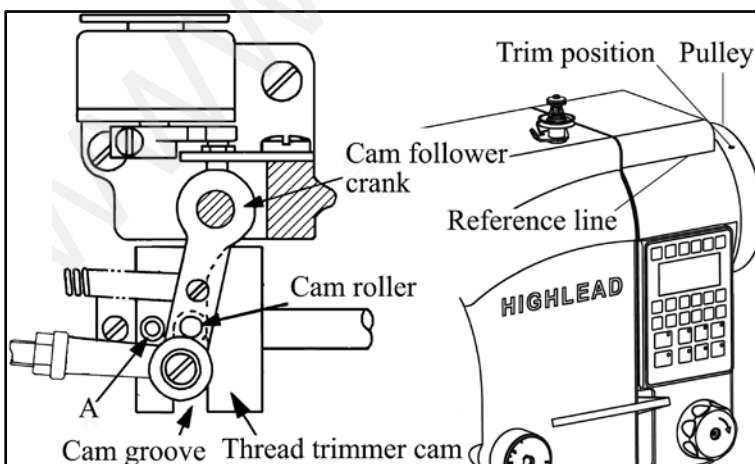


26. ADJUSTMENT OF THREAD TRIMMER CAM

(1) Turn the balance wheel by hand until the needles reach the lowest position.

(2) Maintaining the needle position, depress the cam follower crank and put the cam roller into the groove of thread trimmer cam.

(3) Turning the balance wheel by hand, adjust the thread trimmer cam so that the movable knife starts moving when the green mark point on the balance wheel comes in line with the black mark point on the arm.



Note:To adjust,loosen two thread trimmer cam clamp screws A.

27.ADJUSTMENT OF SCISSORING PRESSURE OF MOVABLE KNIFE AND FIXED KNIFE

(1) Loosen the fixed knife bracket clamp bolt A.

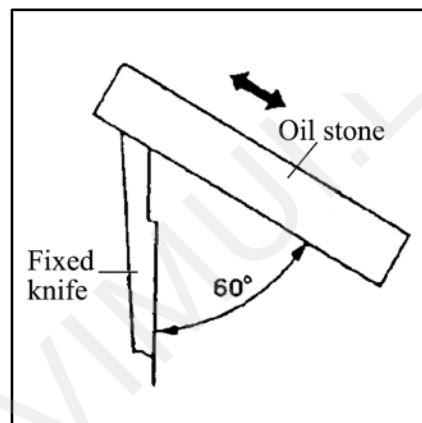
(2) Turn the vertical position adjusting screw B to adjust meshing pressure and then righter the hexagon socket head cap screw A.

Note:Since excess pressure cause large torque to the thread trimming mechanism and trimming failure,adjust it so that thread can be trimmed with minimum pressure.

(3) Move the movable knife and check that the thread can be sharply trimmed.

28.SHARPING OF FIXED KNIFE

When the knives dull,the fixed knife should be sharpened as illustrated in figure.Since it is very difficult to sharpen the movable knife,replace it with a new one when it dulls.

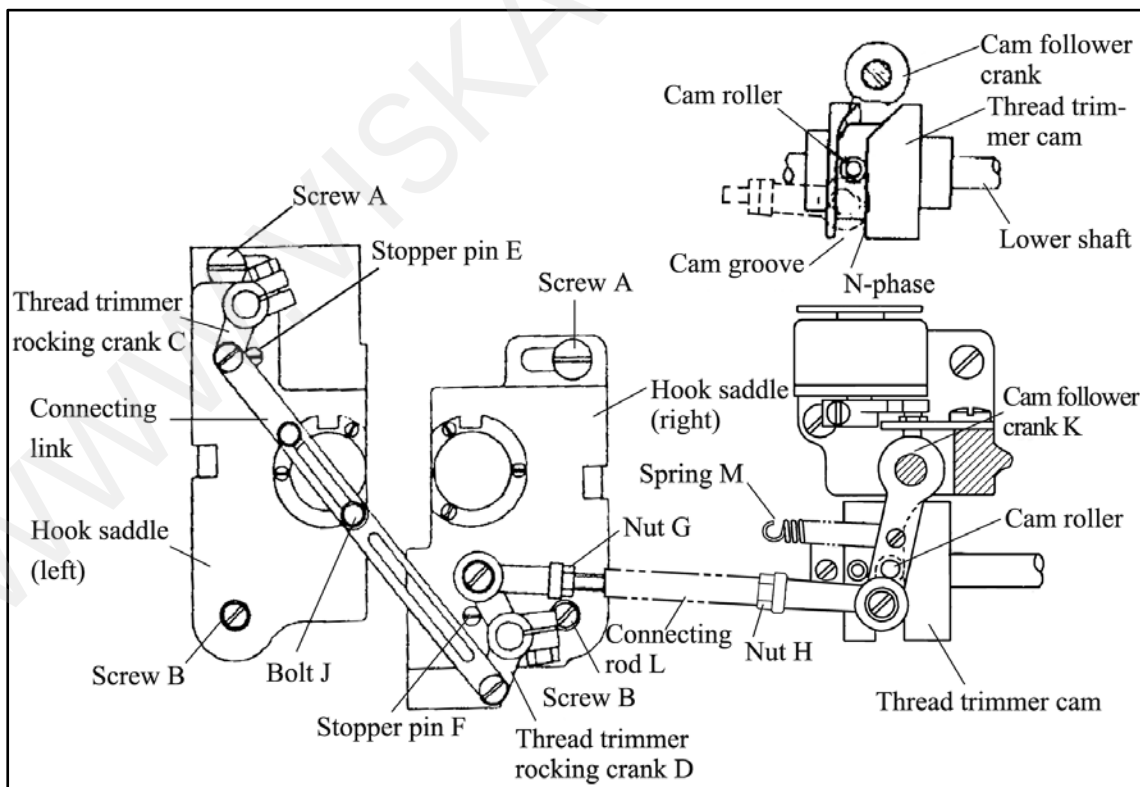


29.ADJUSTMENT FOR CHANGE OF NEEDLE GAUGE PARTS

(1) Replace the throat plate, feed dog and needle clamp.(Since the throat plate and feed dog are special parts designed for thread trimming machine, be sure to use those specified by us.)

(2) Lean the machine head backward.

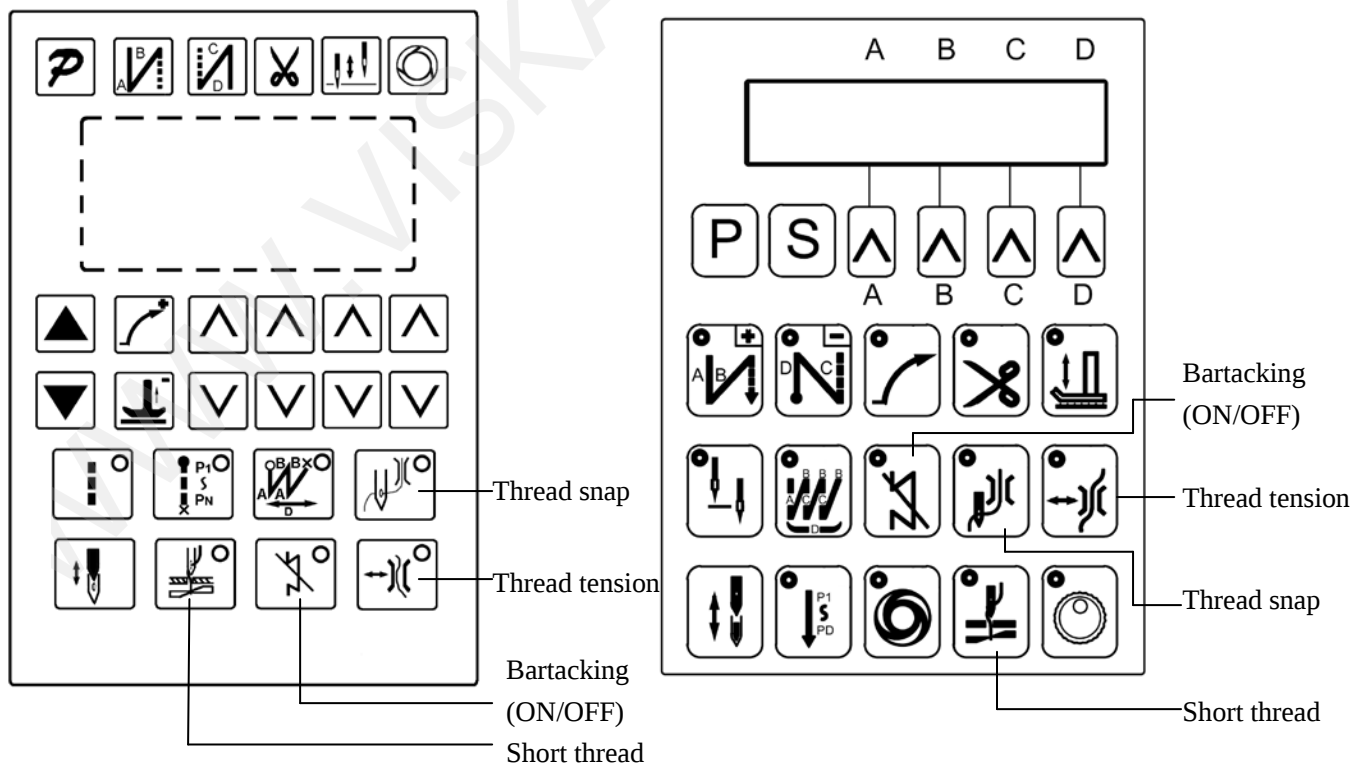
(3) Loosen two connecting link clamp bolts J.



- (4) Remove the spring M.
- (5) Loosen the hook bracket clamp screws A and B and adjust gap between each needle and hook.
- (6) When the needles and hooks have been adjusted, install the spring M.
- (7) Contact the rocking cranks C and D to the stopper pins E and F and tighten the connecting link clamp bolt J.
- (8) Turn the balance wheel by hand until the needles reach the lowest position.
- (9) Loosen the nuts G and H.
- (10) Depress the cam follower crank K and adjust the connecting rod L so that the cam roller can smoothly enter the groove of thread trimmer cam.
- (11) Adjustment of the cam groove and the cam roller
 - a. Push the cam follower crank K so that the cam roller enters into the cam groove.
 - b. Turn the connecting rod L and adjust the clearance between the cam roller and the cam groove surface N as small as possible, and tighten the nuts G and H.
 - c. Push the cam follower crank K again and check that the cam roller enters into the thread trimmer cam groove smoothly.

30. SPECIFICATIONS OF THE OPERATION PANEL

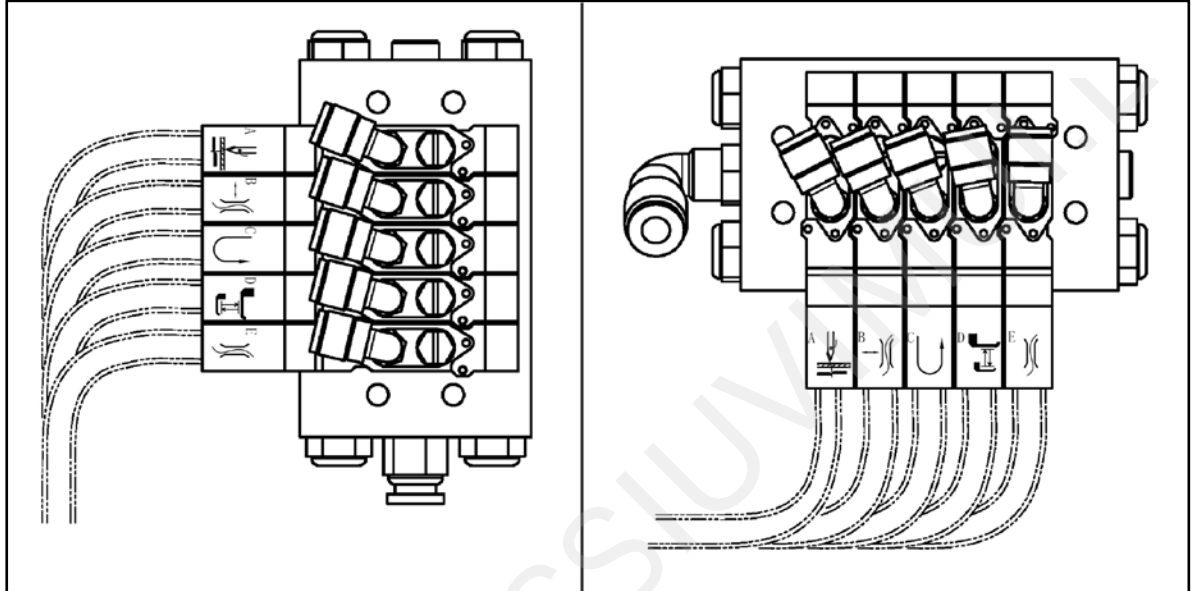
The operation panel is integrated with the motor cover. The operation panel LCD module will display the sewing mode, specifications, bartacking, foot lifting, needle stop position, thread trimmer and low-speed start. Each key on the operation panel diagram as shown. In addition to the basic operation added four function. (Left : standar control operation panel Right : integrated control operation panel)



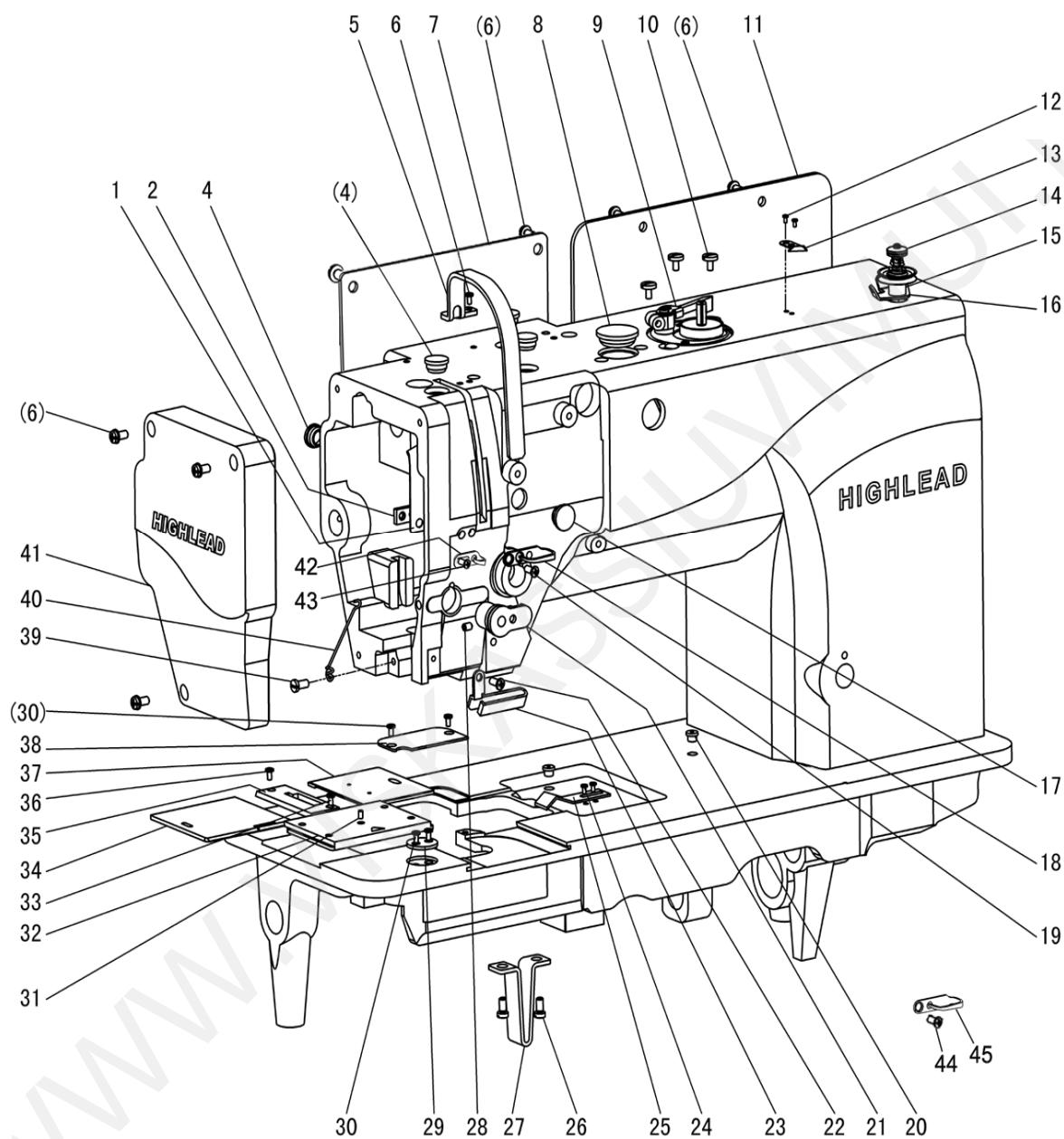
31. VALVE COMPLETE

This machine is designed with mini valve complete that installed integrately by several valves. For single needle model is 5 valves, and the two needle model is 4 valves. The function of the valves as shown in Fig. (Left: standar control system. Right :integrated control system)

A. Short thread B. Thread tension C. Feed reversing D. Presser foot lifting E. Thread tension releasing
(A only available with single needle model)



A.ARM BED AND ITS ACCESSORIES



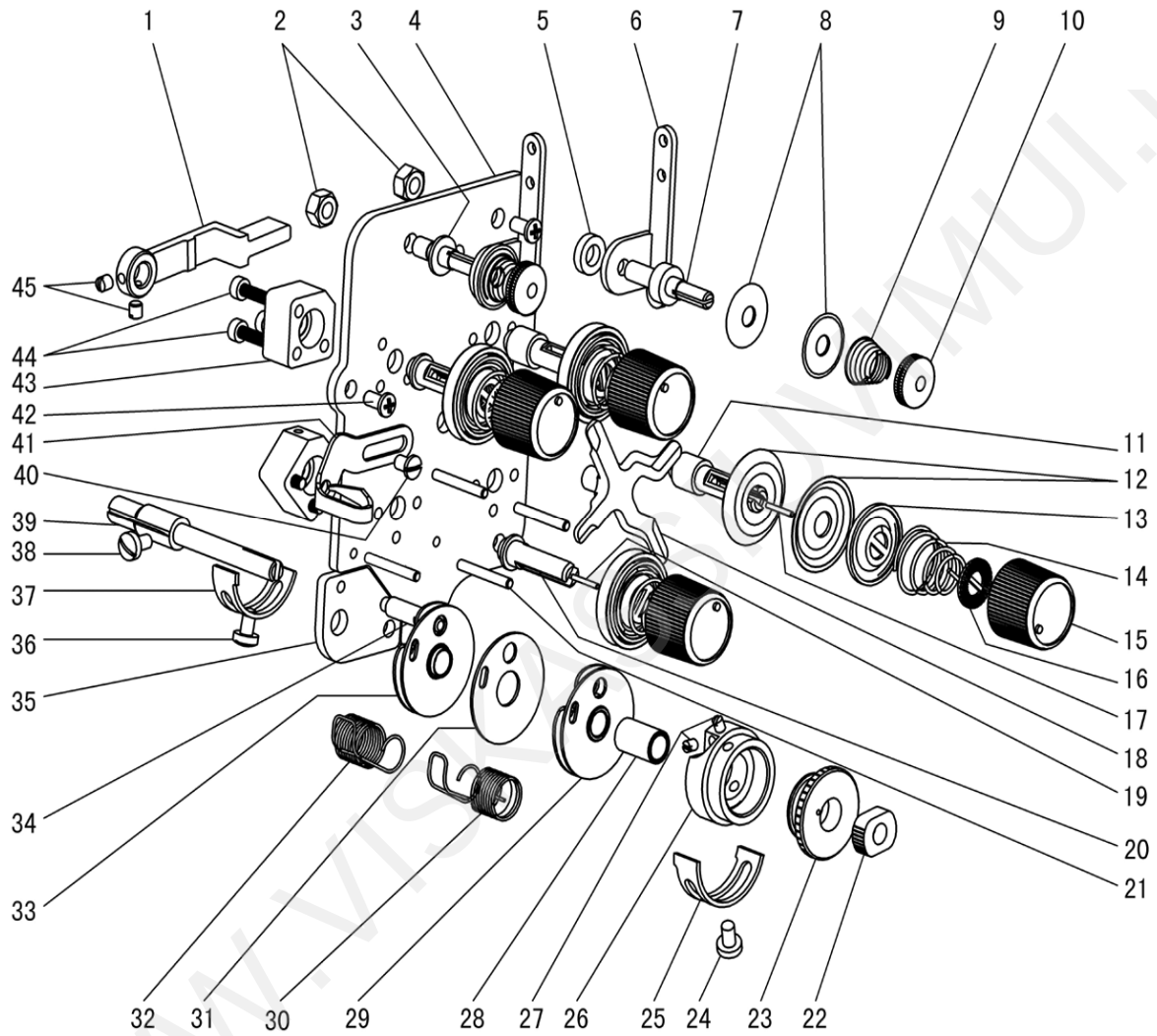
A.ARM BED AND ITS ACCESSORIES

Fig. No.	Part No.	Name	GC20618-1DZA	GC20618-2DZA	Description
A01	H2400B2050	Oil guard	1	1	Φ 13
A02	H2400B2060	Plate for oil guard	1	1	
A04	H4715B8001	Rubber plug	4	4	
A05	H4717B8001	Thread take-up cover	1	1	
A06	HA300B2170	Screw	16	16	Φ 22
A07	HFB5138001	Side cover(left)	1	1	
A08	H4735B8001	Rubber plug	1	1	
A09	HFD1137101	Bobbin thread winder	1	1	
A10	H3107G0662	Screw	3	3	SM11/64 (40) × 8
A11	HFB1148001	Side cover(right)		1	
A11	HFB0148001	Side cover(right)	1		
A12	H6762B8001	Screw	2	2	
A13	H6756B8001	Thread cutter	1	1	Φ 13
A14	H6738B7101	Thread tension complete	1	1	
A15	H6737B8001	Washer	1	1	
A16	H6736B8001	Thread guide	1	1	
A17	H2000B2010	Rubber plug	1	1	Φ 13
A18	H2400B2070	Thread guide	1	1	
A19	H2400B2080	Screw	2	2	
A20	H2000M0090	Oil cup	2	2	
A21	HY91K37101	Solenoid complete	1		1/8"-1/4"
A22	H3200B2100	Screw	1	1	
A23	H3212B0066	Thread guide complete	1	1	
A24	H4742E8001	Screw	2		
A25	H4751B8001	Tension releasing plate	1		1/8"-5/16"
A26	H4912B8001	Screw	2	2	
A27	H4913B8001	Supporter	1	1	
A28	H431040080	Screw	1		
A29	H4915B8001	Cover plate		1	1/8"-5/16"
A30	H4914B8001	Screw	2	4	
A31	H3200B2170	Screw		1	
A32	H3200B2160	Slide plate(front)		1	
A33	HA300B2190	Needle plate screw	2	1	1/8"-5/16"
A34	H4732B8001	Slide plate(left)		1	
A34	H4812B8001	Slide plate(left)	1		
A35	H4917B8001	Needle plate		1	
A35	H5014B8001	Needle plate	1		1/8"-5/16"
A36	H3200B2120	Needle plate screw		1	
A37	H4733B8001	Slide plate(right)		1	
A37	H4813B8001	Slide plate(right)	1		
A38	H4911B8001	Cover plate		1	

A.ARM BED AND ITS ACCESSORIES

Fig. No.	Part No.	Name	GC20618-1DZA	GC20618-2DZA	Description
A38	H5015B8001	Cover plate	1		SM11/64(40) × 8
A39	HA100C2190	Screw	1		
A40	HFB1188001	Electric line holder	1		
A41	HFB1118001	Face plate	1	1	SM9/64(40) × 6
A42	HA106B0675	Thread guide	1		
A43	HA106B0676	Screw	1		
A44	H3000D2160	Screw		1	SM9/64(40) × 7
A45	H4726B8001	Thread guide		1	

B.THREAD TENSION REGULATOR MECHANISM



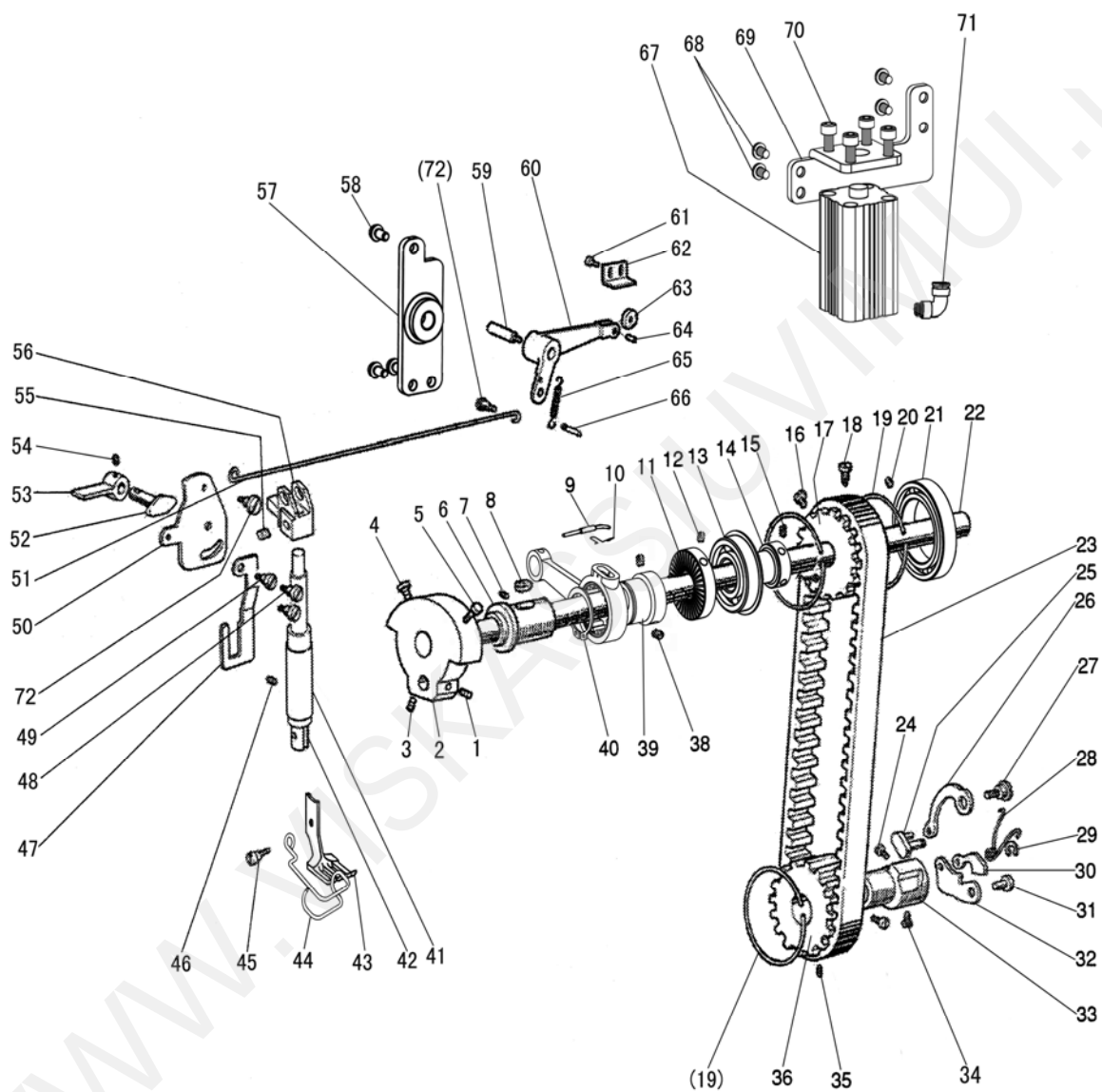
B.THREAD TENSION REGULATOR MECHANISM

Fig. No.	Part No.	Name	GC20618-1DZA	GC20618-2DZA	Description
B01	HFC1168001	Handle bar	1	1	
B02	H003002050	Nut	1	2	
B03	HFC1208001	Thread tension stud	1	1	
B04	HFC1108001	Mounting plate	1	1	
B05	HFC1148001	Washer		1	
B06	HF930C8001	Thread guide plate	1	2	
B07	HFC1218001	Thread tension stud		1	
B08	HA112B0693	Thread tension plate	2	4	
B09	HA710B0672	Thread tension spring	1	2	
B10	HA710B0671	Thread tension nut	1	2	
B11	H3221B0689	Thread tension stud		2	
B12	HA310B0705	Thread tension plate	4	8	
B13	HA310B0702	Thread tension releasing plate	2	4	
B14	H3300B2040	Thread tension spring	2	4	
B15	HA310B0701	Thumb nut complete	2	4	
B16	HA115B7010	Thumb nut revolution stopper	2	4	
B17	HFC1248001	Pin		2	
B18	HFC1098001	Tension releasing plate	1	1	
B19	HFC1258001	Pin	2	2	
B20	H3221B0686	Thread tension stud	2	2	
B21	H3221B0682	Thread guide pin	2	4	
B22	H32481B721	Nut	1	1	
B23	H32481B621	Take-up spring guide		1	
B24	H32481BC21	Screw		1	SM9/64 (40) × 6
B25	H32481BB21	Stopper		1	
B26	H32481B921	Thread tension post		1	
B27	H32481B521	Screw		2	SM1/8 (44) × 3. 9
B28	H32481B821	Bushing		1	
B29	H32481BF21	Thread plate complete		1	
B30	H4712C8001	Thread take-up spring		1	
B31	H32481BE21	Thread plate		1	
B32	H4713C8001	Thread take-up spring	1	1	
B33	H32481BD21	Thread plate complete	1	1	
B34	H32481B421	Thread tension stud		1	
B34	H4804C8001	Thread tension stud	1		
B35	HFC1158001	Mounting plate	1	1	
B36	H3200B2100	Screw	1	1	
B37	H3221B6819	Stopper	1	1	
B38	H3230K0751	Screw	1	1	
B39	H32481B121	Thread tension stud		1	
B39	H4805C8001	Thread tension stud	1		

B.THREAD TENSION REGULATOR MECHANISM

Fig. No.	Part No.	Name	GC20618-1DZA	GC20618-2DZA	Description
B40	HA106B0676	Screw	1	1	SM11/64 (40) × 8 ACQ 10×1. 5-SJ2673E
B41	H3306B0661	Thread guide	1	1	
B42	HA300C2030	Screw	4	4	
B43	HFC1048001	Air cylinder	2	4	
B44	H415030100	Screw	6	12	
B45	H34411C410	Screw	2	2	

C.ARM SHAFT MECHANISM



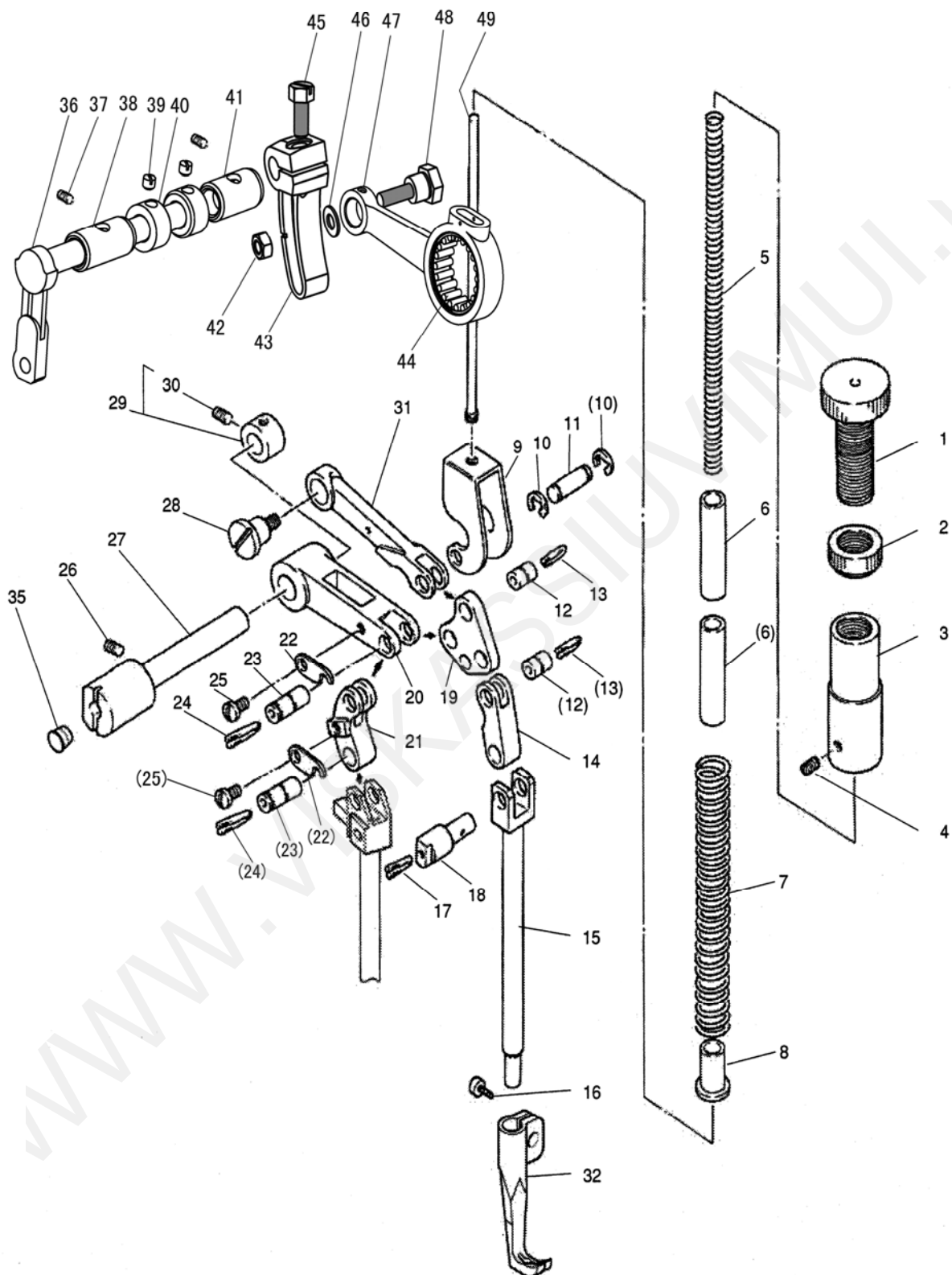
C.ARM SHAFT MECHANISM

Fig. No.	Part No.	Name	GC20618-1DZA	GC20618-2DZA	Description
C01	HA108C0663	Screw	1	1	SM1/4 (40) × 7
C02	H4706D8001	Crank	1	1	
C03	HA105D0662	Screw	1	1	SM1/4 (40) × 4
C04	HA100C2060	Screw	1	1	SM9/32 (28) × 13
C05	HA100C2070	Screw	1	1	SM9/32 (28) × 14
C06	H32111B204	Arm shaft bushing(left)	1	1	
C07	H2405D0664	Screw	1	1	SM15/64 (28) × 14
C08	H32111B104	Oil felt	1	1	
C09	H4713E8001	Oil wick	1	1	
C10	H20111C106	Oil holder	1	1	
C11	HY91B28001	Bushing	1	1	
C12	H3416D0692	Screw	2	2	SM15/64 (28) × 8
C13	H3205J0662	Bearing	1	1	6204ZZNR/5K
C14	H3205J0661	Bushing	1	1	
C15	HA113F0684	Screw	2	2	SM15/64 (28) × 8.5
C16	HA110D0672	Screw	1	1	SM15/64 (28) × 12
C17	HFD1098001	Belt pulley	1	1	
C18	HA100F2130	Screw	1	1	SM15/64 (28) × 14.5
C19	H3205C0661	Spring flange	3	3	
C20	H431060120	Screw	2	2	
C21	HFD1108001	Bearing	1	1	6908AZZ
C22	HFD5068001	Arm shaft	1	1	
C23	HFD1118001	Belt	1	1	
C24	HA104F0654	Screw	1	1	SM15/64 (28) × 10
C25	H4715D8001	Link pin	1	1	
C26	H4713D8001	Spring plate	1	1	
C27	H4714D8001	Pin	1	1	
C28	H4716D8001	Twist spring	1	1	
C29	H007013025	E-type ring	1	1	
C30	H4717D8001	Plate	1	1	
C31	H4718D8001	Pin	1	1	
C32	H4719D8001	Plate	1	1	
C33	H4720D8001	Bushing	1	1	
C34	H4721D8001	Screw	1	1	
C35	H4723D8001	Screw	2	2	
C36	H4722D8001	Belt pulley	1	1	
C38	HA307C0662	Screw	2	2	SM1/4 (40) × 6
C39	HFE1248002	Eccentric	1	1	
C40	H007009250	C-type stop ring	1	1	
C41	HFE1228001	Bushing	1	1	
C42	HFE1208001	Presser bar	1	1	

C.ARM SHAFT MECHANISM

Fig. No.	Part No.	Name	GC20618-1DZA	GC20618-2DZA	Description
C43	H4757E8001	Lifting presser foot		1	
C43	H3100G2110	Lifting presser foot	1		
C44	HE013N8001	Finger guard		1	
C44	HE204I8001	Finger guard	1		
C45	H3200E2020	Screw	1	1	
C46	H2405D0664	Screw	1	1	SM15/64 (28) × 14
C47	HFE1178001	Lifter plate	1	1	
C48		Screw	2	2	
C49	HA107H0662	Screw	1	1	
C50	HFE1168001	Lifter plate	1	1	
C51	HFE5188001	Lifter lever	1	1	
C52	HFE1068001	Lifter cam	1	1	
C53	H3208E0672	Lifter lever	1	1	
C54	HA100B2110	Screw	2	2	SM11/64 (40) × 5. 5
C55	H431050060	Screw	1	1	
C56	HFE1218001	Bracket	1	1	
C57	HFE1458001	Block	1	1	
C58	HA300B2170	Screw	3	3	
C59	HFE1508001	Screw	1	1	
C60	HFE1478001	Lifter crank	1	1	
C61	H6676E8001	Screw	2	2	
C62	HFE1518001	Stop plate	1	1	
C63	HFE1488001	Roller shaft	1	1	
C64	H6640C8001	Spring pin	1	1	
C65	H3211E0692	Spring	1	1	
C66	HA720B0651	Spring pin	1	1	
C67	HFE1558001	Air cylinder	1	1	ACQ 25×45-N
C68	H402050080	Screw	4	4	
C69	HFE1568001	Bracket	1	1	
C70	H415060200	Screw	4	4	
C71	H662IE8001	Joint	1	1	PH4-M5
C72	HK43F28001	Screw	2	2	

D.PRESSER FOOT MECHANISM



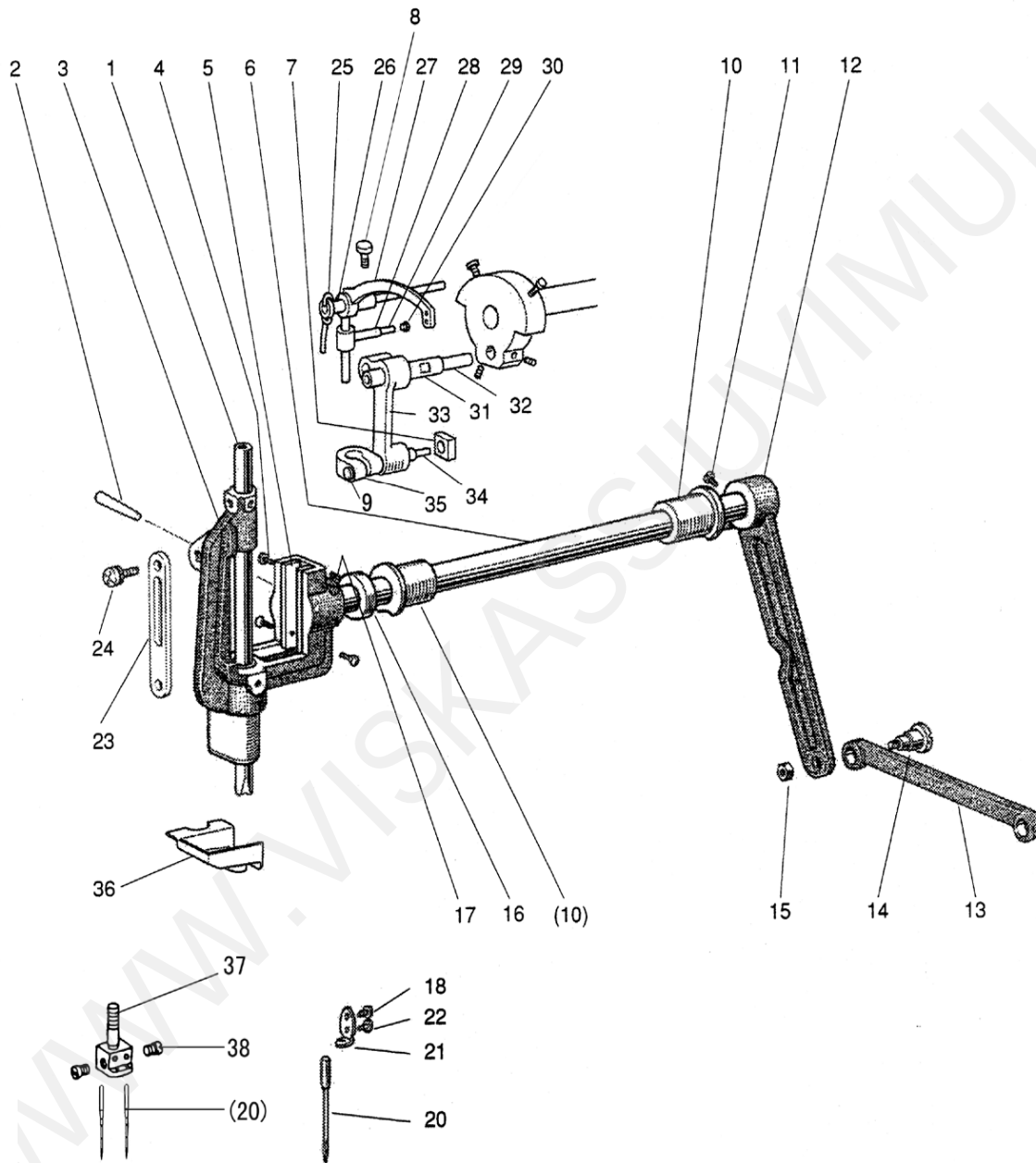
D.PRESSER FOOT MECHANISM

Fig. No.	Part No.	Name	GC20618-1DZA	GC20618-2DZA	Description
D01	HFE1098001	Adjust bolt	1	1	SM1/2 (28) × 35. 5
D02	HA117H0692	Nut	1	1	
D03	HFE1148001	Bushing	1	1	SM15/64 (28) × 7
D04	HA3411D308	Screw	1	1	
D05	HFE1128001	Presser spring	1	1	
D06	HFE1108001	Guide bushing	2	2	
D07	HFE1138001	Spring	1	1	
D08	HFE1118001	Spring guide bushing	1	1	
D09	HFE1428001	Guide bracket	1	1	
D10	H007013040	E-type ring	2	2	
D11	HFE1448001	Shaft pin	1	1	
D12	HFE1298001	Shaft pin	2	2	
D13	HFE1308001	Oil wick	2	2	SM1/4 (40) × 25
D14	192F06020	Vibrating presser bar link	1	1	
D15	HFF1108001	Vibrating presser bar	1	1	
D16	HA700F2100	Screw	1	1	
D17	HFF1138001	Oil wick	1	1	
D18	HFF1128001	Guide pin	1	1	
D19	192F06016	Link	1	1	
D20	HFE1398001	Link lever	1	1	
D21	192F06022	Link	1	1	
D22	HFE1378001	Stop washer	2	2	
D23	HFE1338001	Shaft pin	2	2	
D24	HFE1348001	Oil wick	2	2	
D25	H3215K0693	Screw	2	2	
D26	H5349B8001	Screw	1	1	
D27	HFE1498001	Shaft	1	1	
D28	H2004J0662	Screw	1	1	
D29	H6626E7101	Collar	1	1	
D30	H3000D2030	Screw	2	2	
D31	192F06013	Link	1	1	
D32	H4737F8001	Vibrating presser foot		1	
D32	H4807F8001	Vibrating presser foot	1		
D35	HA300B2110	Rubber plug	1	1	SM11/64 (40) × 8
D36	HFE1048001	Feed lifting rock shaft	1	1	
D37	H5349B8001	Screw	2	2	
D38	HFE5058001	Bushing(long)	1	1	
D39	HA305E0662	Screw	4	4	
D40	H6670C8001	Collar	2	2	
D41	HFE5068001	Bushing(short)	1	1	
D42	H0030550608	Nut	1	1	

D.PRESSER FOOT MECHANISM

Fig. No.	Part No.	Name	GC20618-1DZA	GC20618-2DZA	Description
D43	H0208E8001	Crank	1	1	NTN DCL 168 SM1/4(28) × 17.5
D44	HE049C8002	Bearing	1	1	
D45	HEE4178001	Screw	1	1	
D46	H2013J0065	Washer	1	1	
D47	HFE1278001	Connecting rod	1	1	
D48	H2000J2100	Screw	1	1	
D49	HFE1418001	Guide pin	1	1	

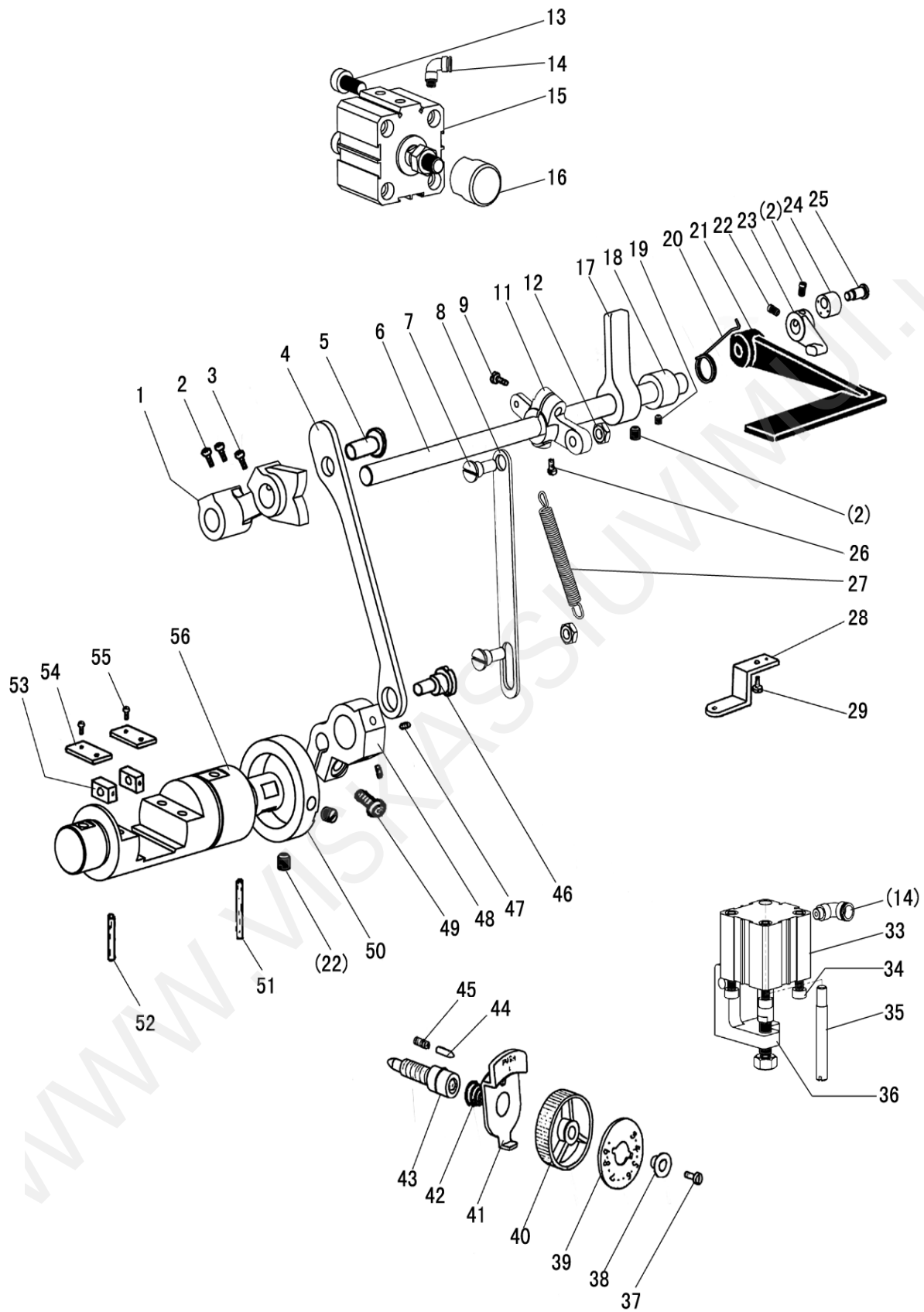
E.NEEDLE BAR & THREAD TAKE-UP LEVER MECHANISM



E.NEEDLE BAR & THREAD TAKE-UP LEVER MECHANISM

Fig. No.	Part No.	Name	GC20618-1DZA	GC20618-2DZA	Description
E01	HFF1078001	Needle bar		1	
E01	HFF0078001	Needle bar	1		
E02	H602040240	Taper pin	1	1	
E03	HFF1098001	Needle bar bracket	1	1	
E04	H32111D304	Screw	4	4	
E05	HFF1168001	Spacer	2	2	
E06	HFF5058001	Needle bar vibrating shaft	1	1	
E07	H32111D804	Square block	1	1	
E08	HA110D0672	Screw	1	1	
E09	H32111D604	Screw	1	1	SM9/64 (40) × 8.5
E10	H3204B0652	Bushing	2	2	
E11	H2012N0652	Screw	2	2	
E12	HFF1198001	Needle bar vibrating crank	1	1	
E13	HFF1208001	Link lever	1	1	
E14	HFF1228001	Screw	1	1	
E15	HA710N0683	Nut	1	1	
E16	H3205D0661	Collar	1	1	
E17	HA307C0662	Screw	1	1	
E18	H3129F0691	Screw	1		
E20		Needle	1	2	DP × 17 21#
E21	H3129F0693	Thread guide	1		
E22	HA100C2170	Screw	1		
E23	HFF1148001	Guide plate	1	1	
E24	HA300B2170	Screw	2	2	
E25	H2405D1122	Oil wick	1	1	
E26	H2405D1121	Thread take-up lever support stud	1	1	
E27	H4712F8001	Thread take-up lever	1	1	
E28	H2405D1112	Thread take-up slide brock	1	1	
E29	H24211D405	Oil wick	1	1	
E30	H24211D305	Plug	1	1	
E31	H2405D0662	Needle bar crank shaft	1	1	
E32	H4716F8001	Oil wick	1	1	
E33	H32111D704	Connecting link	1	1	
E34	H3204D6513	Felt	1	1	
E35	H4722F8001	Needle bar holder	1	1	
E36	HFF1058001	Oil pan	1	1	
E37	H4739F8001	Needle clamp		1	
E38	H32132D104	Screw		2	

F.STITCH REGULATOR MECHANISM



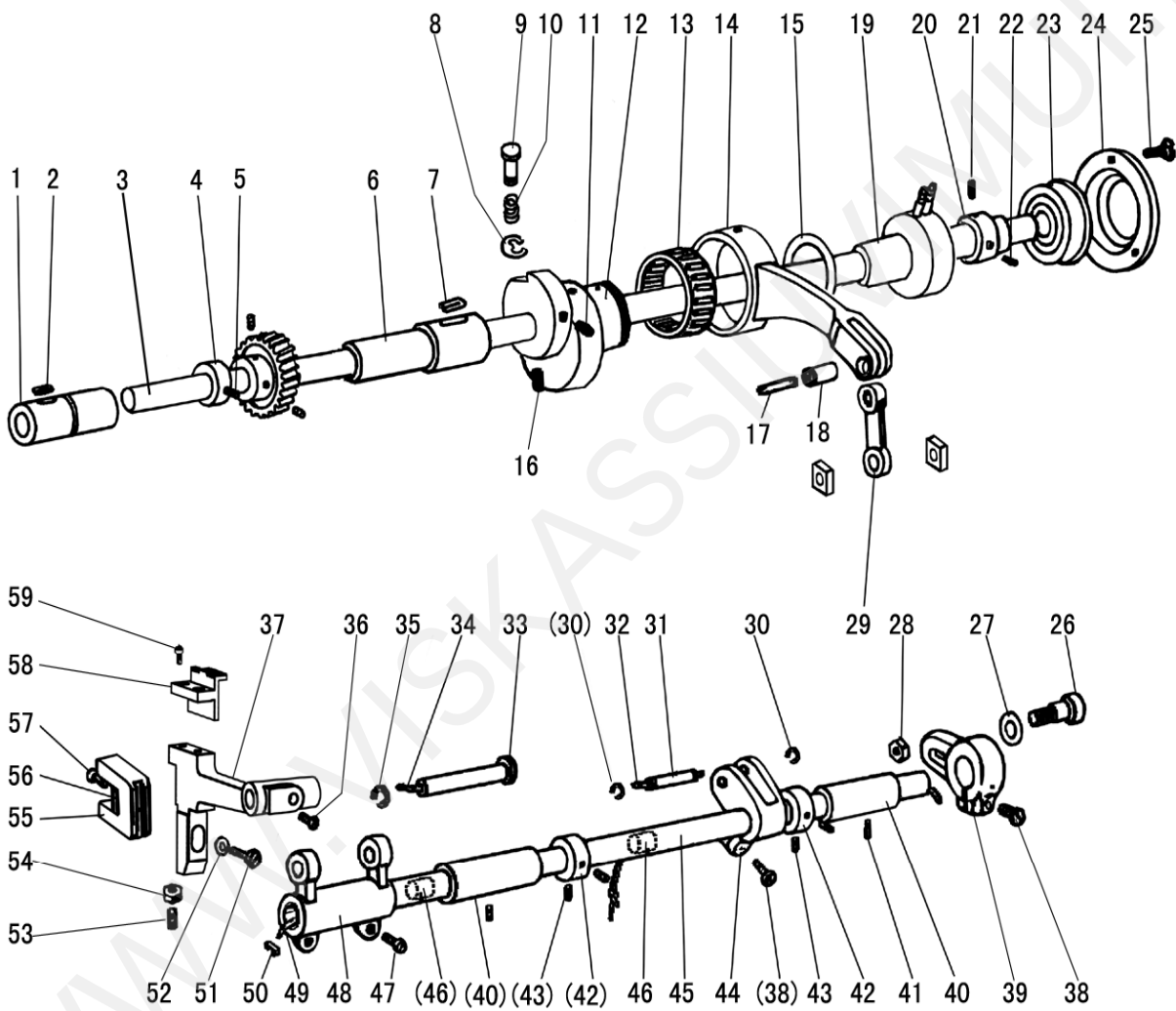
F.STITCH REGULATOR MECHANISM

Fig. No.	Part No.	Name	GC20618-1DZA	GC20618-2DZA	Description
F01	H4706G8001	Feed regulator cam	1	1	PH4-M5
F02	HA113F0684	Screw	5	3	
F03	H3200F2020	Screw	1	1	
F04	H4707G8001	Link	1	1	
F05	HA100G2070	Eccentric shaft	1	1	
F06	H4909G8001	Reverse stitch shaft		1	
F06	HFG0058001	Reverse stitch shaft	1		
F07	H4941L8001	Screw	2	2	
F08	H4948L8001	Link	1	1	
F09	HA800F2020	Screw	1	1	
F11	H4905G8001	Crank	1	1	
F12	H4940L8001	Nut	2	2	
F13	H415050150	Screw	2		
F14	H662IE8001	Joint	2	1	
F15	HG107C8001	Air cylinder	1		
F16	HFE4168001	Feeler	1		
F17	H4912G8001	Reverse stitch crank	1		
F18	H8841B8001	Collar		1	
F19	H431050050	Screw		2	
F20	H4939L8001	Spring	1	1	
F21	H4906G8001	Reverse sewing lever	1	1	
F22	HA3411D308	Screw	1	1	
F23	H4936L8001	Lever	1	1	
F24	H4938L8001	Rubber ring	1	1	
F25	H4937L8001	Screw	1	1	
F26	H3207F0672	Screw	1	1	
F27	H4710G8001	Spring	1	1	
F28	H3200F2050	Bracket for spring	1	1	
F29	HA300C2030	Screw	1	1	
F33	HEP2058001	Air cylinder	1	1	
F34	H415040400	Screw	3	3	
F35	HEG4108001	Guide screw	1	1	
F36	HEG4088001	Block	1	1	
F37	HA720F0686	Screw	1	1	
F38	HA720F0685	Bushing	1	1	
F39	H4910G8001	Stitch length indicating plate	1	1	
F40	HA7421F120	Dial	1	1	
F41	HA720F0683	Stopper pin releasing lever	1	1	
F42	HA720F0687	Spring	1	1	
F43	HA109F0671	Screw bar	1	1	
F44	HA700F2030	Stopper pin	1	1	

F.STITCH REGULATOR MECHANISM

Fig. No.	Part No.	Name	GC20618-1DZA	GC20618-2DZA	Description
F45	H3200F2110	Spring	1	1	
F46	H3206F0662	Pin	1	1	
F47	H428050060	Screw	2	2	
F48	H4714G8001	Reverse sewing crank	1	1	
F49	H415050140	Screw	1	1	
F50	H4716G8001	Collar	1	1	
F51	H4719G8001	Felt	1	1	
F52	H4721G8001	Felt	1	1	
F53	H4722G8001	Square block	2	2	
F54	H4723G8001	Guide plate	2	2	
F55	HA300C2030	Screw	4	4	
F56	H4720G8001	Reverse block	1	1	

G.LOWER SHAFT & FEED ROCK SHAFT MECHANISM



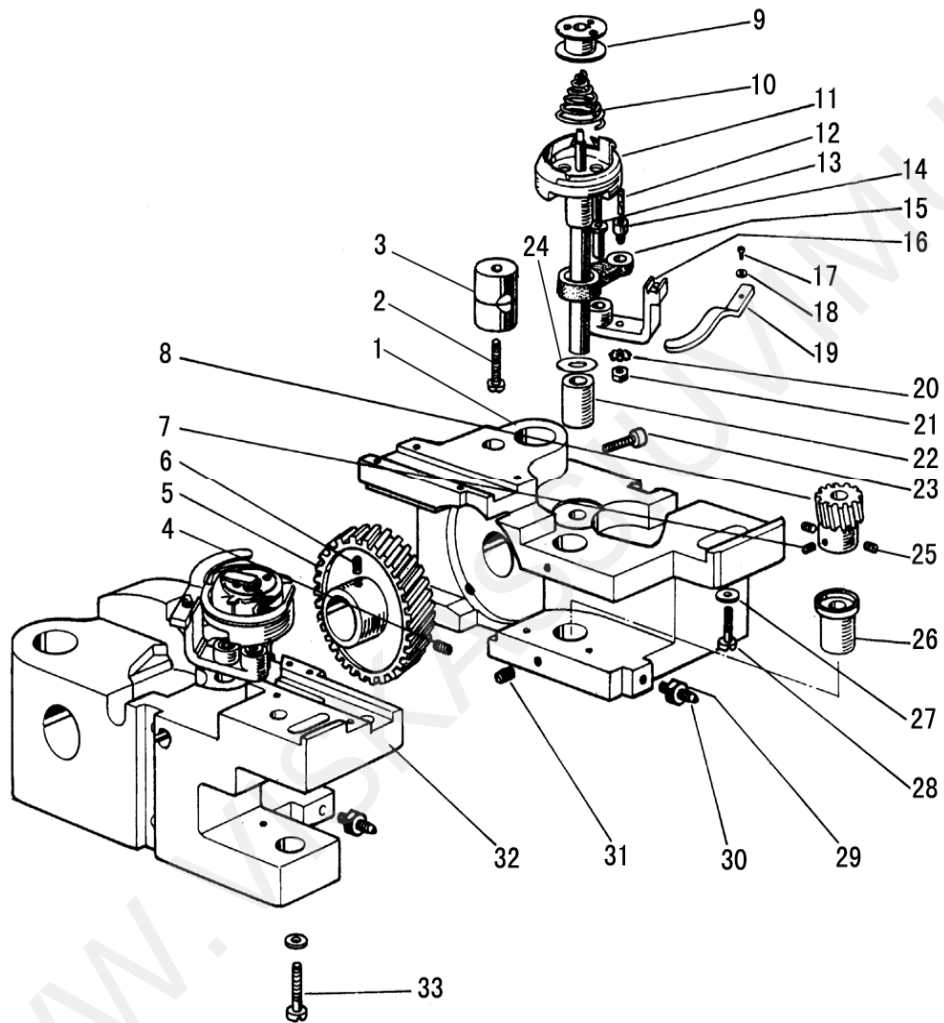
G.LOWER SHAFT & FEED ROCK SHAFT MECHANISM

Fig. No.	Part No.	Name	GC20618-1DZA	GC20618-2DZA	Description
G01	H4706H8001	Lower shaft bushing(left)	1	1	SM1/4 (40) × 5
G02	H4707H8001	Oil wick	1	1	
G03	HFH5088001	Lower shaft	1	1	
G04	H4710H8001	Feed lifting cam	1	1	
G05	H3205H0654	Screw	1	1	
G06	H4712H8001	Lower shaft bushing(right)	1	1	
G07	H4713H8001	Oil wick	1	1	
G08	H007013050	E-type ring	2	2	
G09	H4715H8001	Push button	1	1	
G10	H4714H8001	Spring	1	1	
G11	H2405D0664	Screw	1	1	NTN 7E-HMK 2616D
G12	H4717H8001	Feed eccentric cam	1	1	
G13	H4719H8001	Bearing	1	1	
G14	H4718H8001	Feed connecting rod	1	1	
G15	H007009260	C-type ring	1	1	
G16	HA100C2020	Screw	1	1	
G17	H4720H8001	Oil wick	1	1	
G18	H4721H8001	Shaft	1	1	
G19	H4722H7101	Lower shaft bushing complete(middle)	1	1	
G20	H4725H8001	Bushing	1	1	NTN 6203Z
G21	HA105D0662	Screw	1	1	
G22	H3205H0654	Screw	1	1	
G23	H4726H8001	Bearing	1	1	
G24	H4727H8001	Bearing holder	1	1	
G25	HA7311C306	Screw	3	3	
G26	H4729H8001	Screw	1	1	
G27	HA310G3012	Washer	1	1	
G28	H0030550608	Nut	1	1	
G29	H4737H8001	Link	1	1	M5 × 5
G30	H007013050	E-type ring	2	2	
G31	H4738H8001	Pin	1	1	
G32	H4739H8001	Oil wick	1	1	
G33	H32243G205	Feed bar shaft	1	1	
G34	H3205G0662	Oil wick	1	1	
G35	H007009070	C-type ring	1	1	
G36	H429050050	Screw	1	1	
G37	H4942H8001	Feed bar		1	
G37	H4805H8001	Feed bar	1		
G38	H2012N0652	Screw	2	2	
G39	HFF1218001	Feed connection crank(right)	1	1	
G40	HA100G2120	Feed rock shaft bushing	2	2	

G.LOWER SHAFT & FEED ROCK SHAFT MECHANISM

Fig. No.	Part No.	Name	GC20618-1DZA	GC20618-2DZA	Description
G41	H4708D8001	Screw	2	2	SM1/8 (40) × 7
G42	HA108G0661	Collar	2	2	
G43	HA105D0662	Screw	4	4	
G44	H4736H8001	Feed connection crank(middle)	1	1	
G45	HFH5098001	Feed rock shaft	1	1	
G46	H3204G0652	Felt	2	2	
G47	HA104G0012	Screw	2	2	
G48	H4905H8001	Feed connection crank(left)	1	1	
G49	HFH5118001	Oil wick	1	1	
G50	H3200G2030	Clip	1	1	
G51	H3200H2040	Screw	1	1	
G52	H2013J0065	Washer	1	1	
G53	H429030140	Screw		1	
G54	H003002030	Nut		1	
G55	H4743H8001	Feed bar forked connection	1	1	
G56	H3205H0652	Felt	1	1	
G57	H3205H0653	Screw	1	1	
G58	H4944H8001	Feed dog		1	
G58	HEH4068001	Feed dog	1		
G59	H32211G205	Screw	2	2	

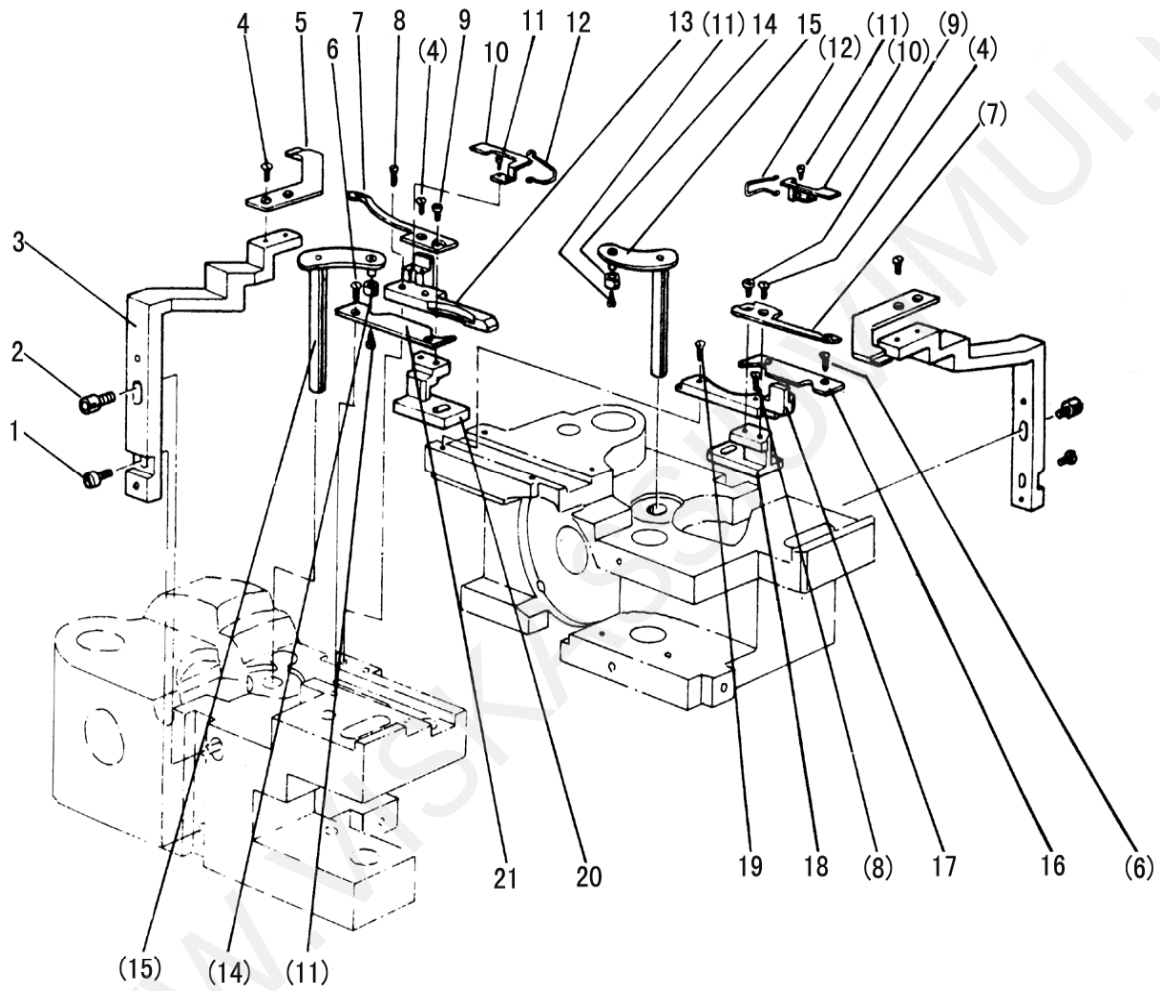
H.HOOK SADDLE MECHANISM



H.HOOK SADDLE MECHANISM

Fig. No.	Part No.	Name	GC20618-1DZA	GC20618-2DZA	Description
H01	H4906I8001	Hook saddle	1	1	SM15/64 (28) × 22
H02	H3207I0661	Screw	1	1	
H03	H3207I0662	Bushing	1	1	
H04	H3204I6510	Screw	1	2	
H05	H4706I8001	Hook gear(large)	1	2	
H06	HA307C0662	Screw	2	4	
H07	HA105D0662	Screw	2	4	
H08	H4705I8001	Hook gear(small)	1	2	
H09	H4912I8001	Bobbin	1	2	
H10	H4922I8001	Spring	1	2	
H11	H4908I7101	Hook complete	1	2	BO-B872 (A) KRT12-5LMKC-C1
H12	H3204I0656	Oil wick	2	4	
H13	H32153I504	Opener bracket shaft	1	2	
H14	H32153I204	Screw	1	2	
H15	H33131I204	Link	1	2	
H16	H33131I104	Opener bracket	1	2	
H17	H2004J0067	Screw	1	2	
H18	H3200I2030	Waher	1	2	
H19	H3305I0066	Opener	1	2	
H20	H005008050	Spring washer	1	2	
H21	HA104G0658	Nut	1	2	3/16 (28) × 9 3/16 (28) × 43
H22	H4909I8001	Hook shaft bushing(upper)	1	2	
H23	H3204I0657	Screw	1	2	
H24	H4910I8001	Washer	1	2	
H25	H3205H0654	Screw	1	2	
H26	H4911I8001	Hook shaft bushing(lower)	1	2	
H27	H2013J0065	Washer	1	2	
H28	H3200I2050	Screw	1	2	
H29	H3204I0659	Adjust nut	1	2	
H30	H3204I0658	Screw	1	2	
H31	HA305E0662	Screw	2	4	
H32	H4917I8001	Hook saddle		1	
H33	H4913I8001	Screw		1	

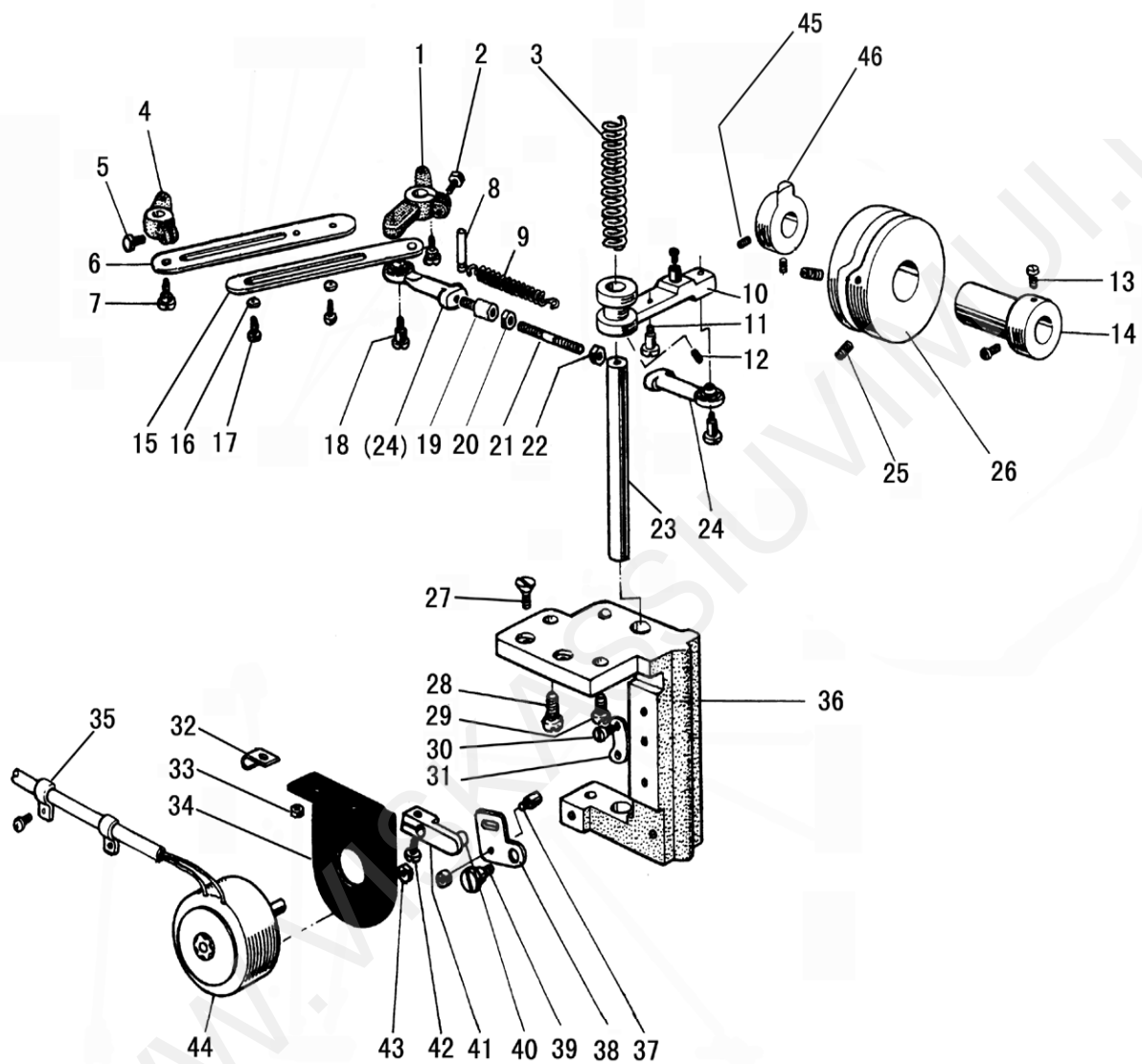
I.THREAD TRIMMER MECHAISM (I)



I.THREAD TRIMMER MECHAISM (I)

Fig. No.	Part No.	Name	GC20618-1DZA	GC20618-2DZA	Description
I01	H4905J8001	Screw	1	2	SM11/64 (40) × 12
I02	H4906J8001	Screw	1	2	
I03	H4907J8001	Trimming knife holder	1	2	SM9/64 (40) × 4
I04	HA7121N304	Screw	3	6	
I05	H4909J8001	Fixed knife		2	SM9/64 (40) × 4
I05	HEJ4078001	Fixed knife	1		
I06	H4914B8001	Screw	2	4	SM1/8 (44) × 9. 2
I07	H4911J8001	Moved knife	1	2	
I08	H4912J8001	Screw	1	2	SM9/64 (40) × 4. 5
I09	H4913J8001	Screw	1	2	
I10	H4914J8001	Spring plate	1	2	SM3/32 (56) × 3. 8
I11	H4915J8001	Screw	3	6	
I12	H4916J8001	Spring	1	2	SM9/64 (40) × 9. 5
I13	H4917J8001	Guide(left)		1	
I14	H4920J8001	Roller	1	2	SM9/64 (40) × 9. 5
I15	H4921J8001	Lever	1	2	
I16	H4922J8001	Cover	1	1	SM9/64 (40) × 9. 5
I17	H4923J8001	Guide(right)	1	1	
I18	H4924J8001	Mounting block(right)	1	1	SM9/64 (40) × 9. 5
I19	H4925J8001	Screw	1	1	
I20	H4926J8001	Mounting block(left)		1	SM9/64 (40) × 9. 5
I21	H4927J8001	Cover		1	

J.THREAD TRIMMER MECHAISM (II)

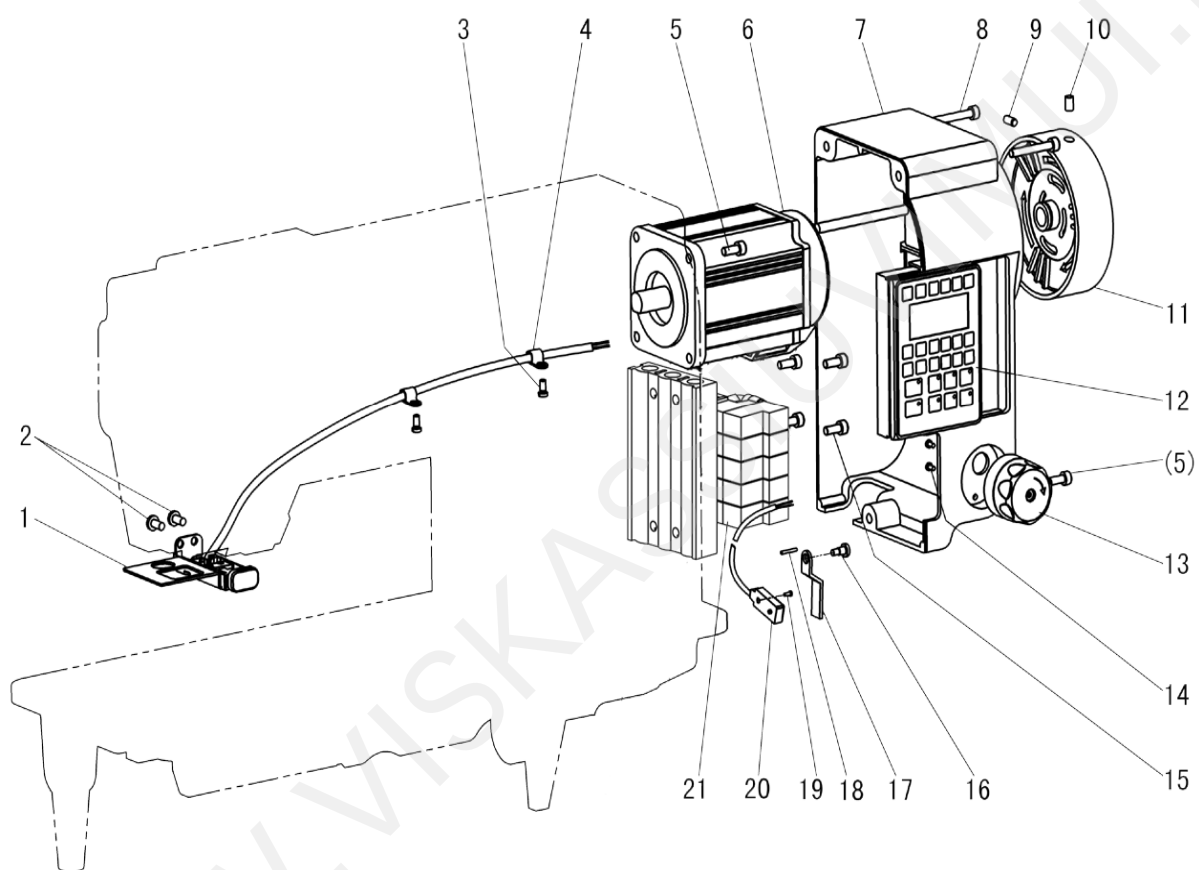


J.THREAD TRIMMER MECHAISM (II)

Fig. No.	Part No.	Name	GC20618-1DZA	GC20618-2DZA	Description
J01	H4912K8001	Connection crank	1	1	M5×16
J02	H4913K8001	Screw	1	1	
J03	H4945K8001	Spring	1	1	
J04	H4908K8001	Crank		1	
J05	H4907K8001	Screw		1	
J06	H4906K8001	Link		1	
J07	H4905K8001	Screw		2	
J08	HA100H2080	Spring pin	1	1	
J09	H4943K8001	Spring	1	1	
J10	H4957K7101	Vibrating crank	1	1	
J11	H4944K8001	Screw	1	1	
J12	H431050050	Screw	2	2	
J13	HA104F0654	Screw	2	2	
J14	H4931K8001	Collar	1	1	
J15	H4909K8001	Link		1	
J16	H005001050	Washer		2	
J17	H4911K8001	Screw		2	
J18	H4936K8001	Screw	2	2	
J19	H4987K8001	Bolt	1	1	
J20	H4940K8001	Nut	1	1	
J21	H4939K8001	Bolt	1	1	
J22	H003002050	Nut	1	1	
J23	H4963K8001	Shaft	1	1	
J24	H3405D0663	Ball joint	2	2	
J25	HA710E0692	Screw	2	2	
J26	H4932K8001	Trimmer cam	1	1	
J27	H411050160	Screw	2	2	
J28	H2012N0652	Screw	1	1	
J29	H4983K8001	Screw	1	1	
J30	H4967K8001	Screw	2	2	
J31	H4966K8001	Stopper	1	1	
J32	H4981K8001	Holder	1	1	
J33	H003008050	Nut	2	2	
J34	H4977K8001	Mounting plate	1	1	
J35	HA708P0668	Nylon holder	2	2	
J36	H4965K8001	Mounting block	1	1	
J37	H4970K8001	Screw	1	1	
J38	H4971K8001	Lever	1	1	
J39	H4972K8001	Screw	1	1	
J40	H4973K8001	Pin	1	1	
J41	H4974K8001	Crank	1	1	

J.THREAD TRIMMER MECHAISM (II)

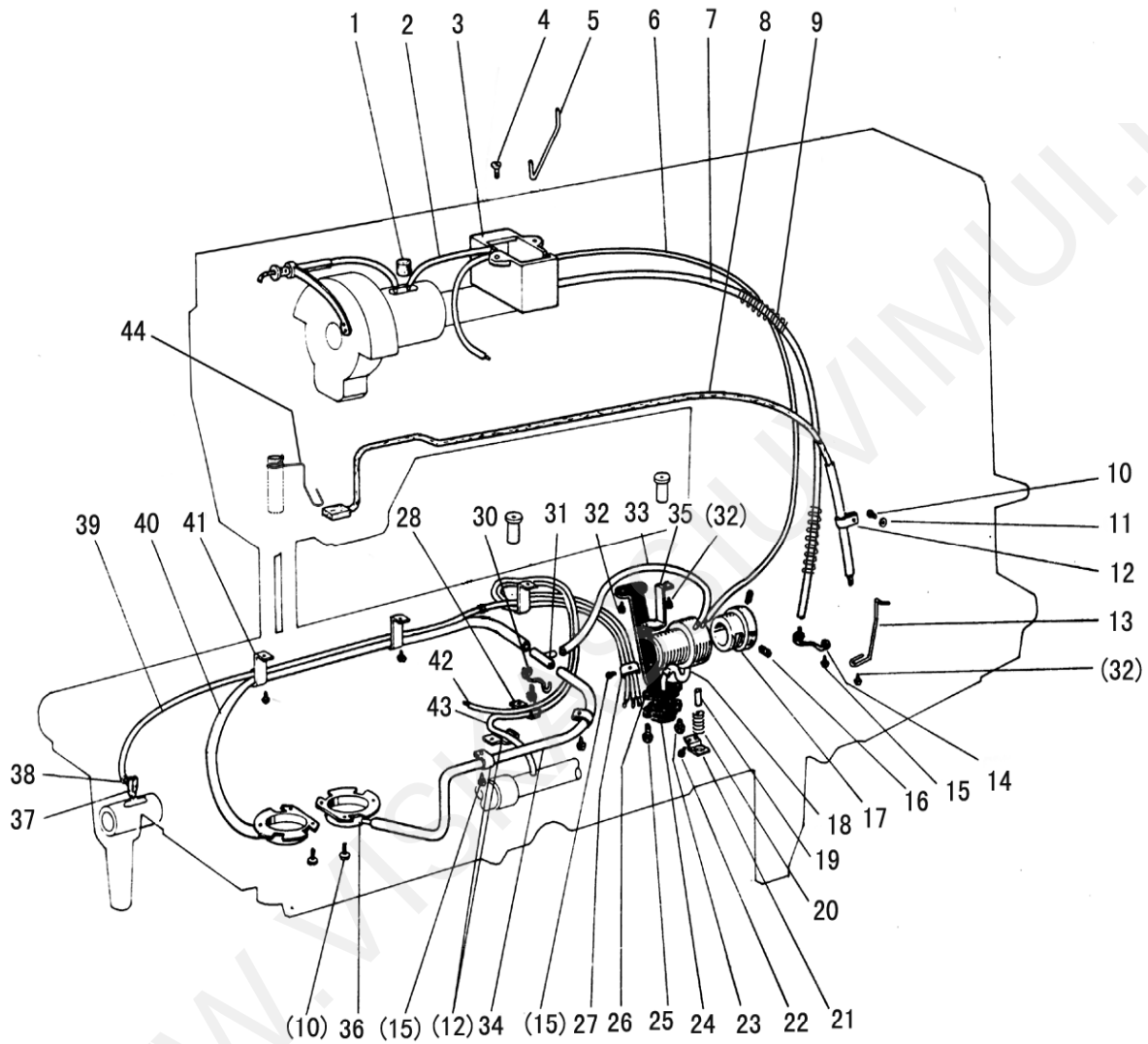
Fig. No.	Part No.	Name	GC20618-1DZA	GC20618-2DZA	Description
J42	HA111G0683	Screw	1	1	
J43	HA7111N304	Nut	1	1	
J44	HFK1087101	Solenoid complete	1	1	
J45	H4934K8001	Cam	1	1	
J46	H431050050	Screw	2	2	



K.MOTOR MECHANISM

Fig. No.	Part No.	Name	GC20618-1DZA	GC20618-2DZA	Description
K01	HFL1187101	Touch switch complete	1	1	SM11/64 (40) × 8 750W SM15/64 (28) × 8 SM15/64 (28) × 6
K02	HD15B58001	Screw	2	2	
K03	HA100C2190	Screw	2	2	
K04	HA708P0668	Nylon holder	2	2	
K05	H415050200	Screw	5	5	
K06	HFL1088001	Direct drive motor	1	1	
K07	HFL1138001	Motor cover	1	1	
K08	H415050800	Screw	2	2	
K09	H3416D0692	Screw	1	1	
K10	H7206E8001	Screw	1	1	
K11	HFL1078001	Pulley	1	1	
K12	HFL1147101	Operation panel	1	1	
K13	HFL1217101	Electronic dial	1	1	
K14	H409030080	Screw	2	2	
K15	H415040250	Screw	4	4	
K16	H8868B8001	Screw	1	1	
K17	H8818B8001	Switch plate	1	1	
K18	H609030080	Spring pin	1	1	
K19	H8867B8001	Screw	1	1	
K20	HFB1198001	Safetly switch	1	1	
K21		Valve complete		1	
K21		Valve complete	1		

L.OIL LUBRICATION MECHANISM



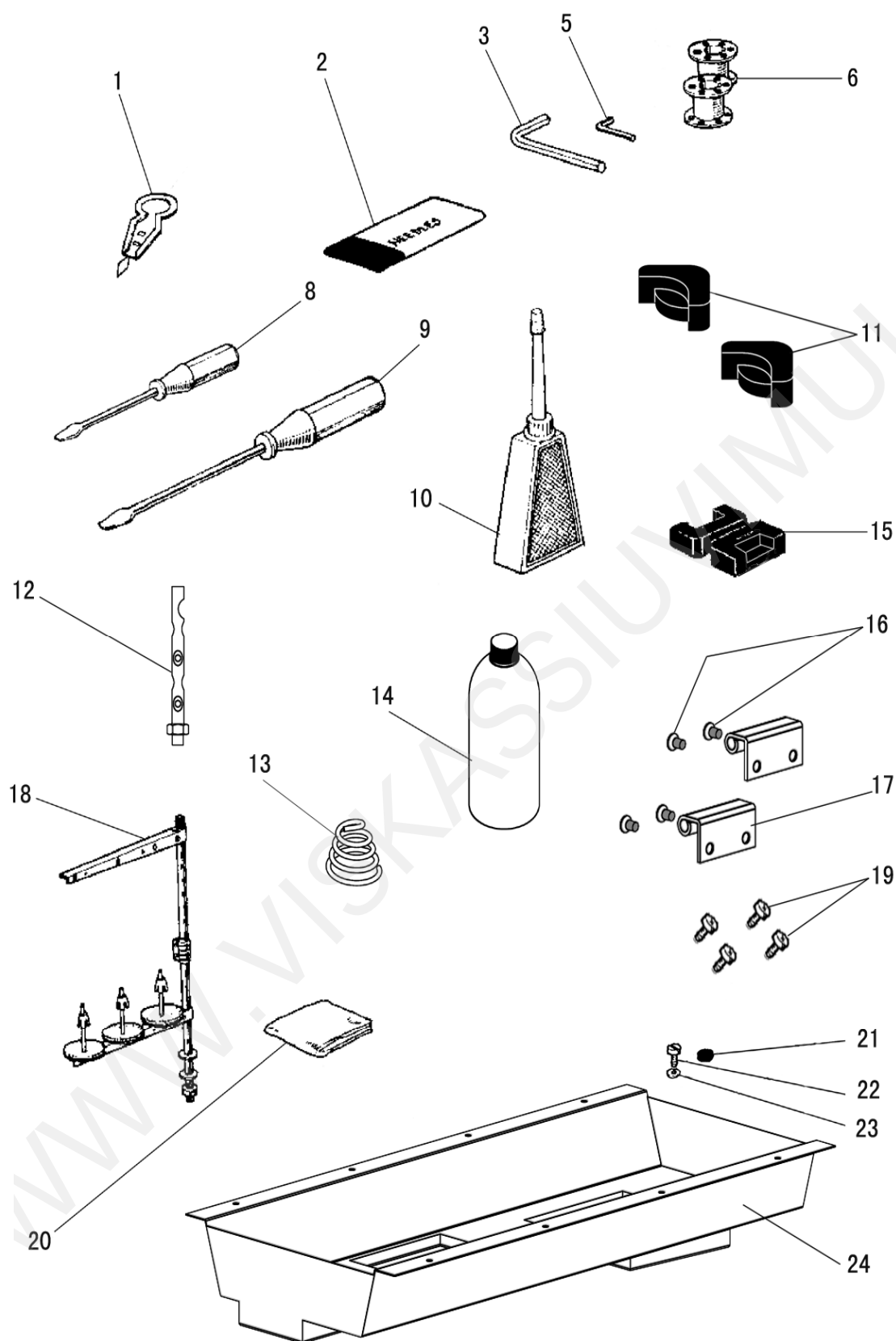
L.OIL LUBRICATION MECHANISM

Fig. No.	Part No.	Name	GC20618-1DZA	GC20618-2DZA	Description
L01	H32175B304	Felt	1	1	
L02	H4705J7101	Oil pipe complete	1	1	
L03	H3204K0011	Oil reservoir complete	1	1	
L04	H411040160	Screw	2	2	
L05	H4707J8001	Oil pipe holder	1	1	
L06	HFM5068001	Oil pipe	1	1	$\Phi 3 \times 1 \times 550$
L07	HFM5078001	Oil pipe	1	1	$\Phi 5 \times 1 \times 500$
L08	H4711J7101	Oil pipe complete	1	1	
L09	H4710J8001	Spring	2	2	
L10	HA7311CC06	Screw	4	7	
L11	HA100I2050	Washer	1	1	
L12	H32311D606	Oil pipe holder	4	4	
L13	H4714J8001	Oil pipe holder	1	1	
L14	H4715J8001	Oil pipe holder	1	1	
L15	HA300B2130	Screw	7	10	
L16	H3230K0751	Screw	2	2	
L17	H4716J8001	Bushing	1	1	
L18	H3215K0696	Oil pipe	1	1	
L19	H1100I2070	Pin	1	1	
L20	H1100I2080	Spring	1	1	
L21	H1100I2110	Spring holder	1	1	
L22	H3204D6510	Screw	1	1	
L23	H3215K0693	Screw	1	1	
L24	H3215K0692	Filter	1	1	
L25	H3215K0694	Screw	1	1	
L26	H4718J7101	Mounting plate complete	1	1	
L27	H4720J8001	Oil pipe holder	1	1	
L28	H3200K0170	Oil pipe holder	1	1	
L30	H3210K0674	Oil pipe holder		1	
L31	H3210K0671	Oil pipe joint		1	
L32	HA300B2170	Screw	4	4	
L33	H4721J8001	Oil pipe		1	
L33	H4724J8001	Oil pipe	1		$\Phi 3 \times 1 \times 445$
L34	H4723J8001	Oil pipe		1	$\Phi 3 \times 1 \times 355$
L35	H4722J8001	Holding plate	1	1	
L36	H3211K0068	Oil reservoir complete	1	2	
L37	H3200K0180	Oil wick	2	3	
L38	H32143K204	Oil wick	1	1	$\Phi 2.5 \times 500$
L39	HFM5118001	Oil pipe	1	1	$\Phi 3 \times 0.5 \times 450$
L40	HFM1068001	Oil pipe		1	$\Phi 3 \times 1 \times 500$
L41	H3200K0160	Oil pipe holder	3	3	

L.OIL LUBRICATION MECHANISM

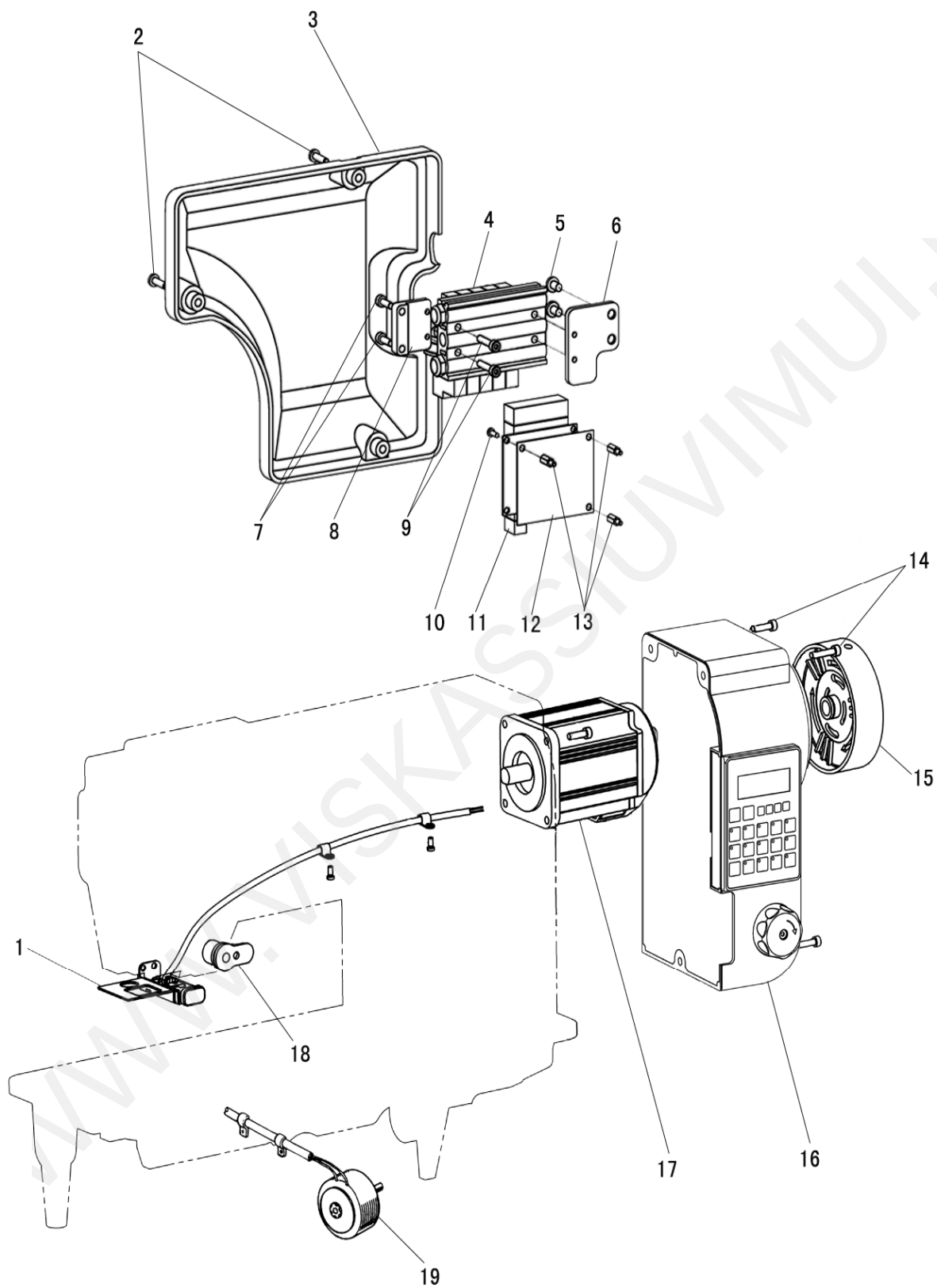
Fig. No.	Part No.	Name	GC20618-1DZA	GC20618-2DZA	Description
L42	H4728J7101	Oil pipe complete	1	1	
L43	H4733J7101	Oil pipe complete	1	1	
L44	HD15J98001	Oil pipe holder	1	1	

M.ACCESSORIES



M.ACCESSORIES

Fig. No.	Part No.	Name	GC20618-1DZA	GC20618-2DZA	Description
M01	H3207L0065	Thread a needle kit	1	1	DP×17 21#
M02		Needle	4	6	
M03	HB00001030	Socket wrench	1	1	
M05	HB00001020	Socket wrench	1	1	
M06	H4912I8001	Bobbin	3	4	
M08	HA300J2210	Screw drive(small)	1	1	
M09	HA300J2070	Screw drive(large)	1	1	
M10	HA100J2110	Oiler	1	1	
M11	HF905L8001	Vibration preventing rubber	2	2	
M12	HFN1177101	Thread guide	1	1	
M13	H4710C8001	Thread tension spring	1	1	
M14	HA120J8001	Oil can	1	1	
M15	HA307J0671	Hinge rubber	2	2	
M16	H411060100	Screw	4	4	
M17	HF914L8001	Hinge	2	2	
M18	H3200L0120	Thread stand		1	
M18	HA200J2030	Thread stand	1		
M19	HA04042160	Screw	8	8	
M20	H7212K8001	Machine cover	1	1	
M21	HA100J2120	Magnet block for reservoir	1	1	
M22	HA104J0652	Screw	1	1	
M23	HA104J0653	Washer	1	1	
M24	HFN5108001	Oil pan	1	1	



N.INTEGRATED DIRECT DRIVE AND CONTROL

Fig. No.	Part No.	Name	GC20618-1DZA	GC20618-2DZA	Description
N01	HFL5157101	Touch switch complete	1	1	
N02	H5731B8001	Screw	3	3	
N03	HFB5158001	Cover	1	1	
N04		Valve complete		1	
N04		Valve complete	1		
N05	H409050080	Screw	2	2	
N06	HF05088001	Valve fixed plate	1	1	
N07	H415040120	Screw	2	2	
N08	HF05098001	Valve fixed plate	1	1	
N09	H415040200	Screw	4	4	
N10	HFL5148001	Screw	3	3	
N11	HFL5128001	Electric plate	1	1	
N12	HFL5118001	Protection paper	1	1	
N13	HFL5138001	Screw standing	3	3	
N14	H415050200	Screw	2	2	
N15	HFL5167101	Pulley complete	1	1	
N16	HFL5107101	Motor cover complete	1	1	
N17	HFL5098001	Direct drive motor	1	1	
N18	HFB5177101	Solenoid complete	1	1	
N19	HFK5057101	Solenoid complete	1	1	

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