

GC0318-1A/GC0318-1H/GC0318-1B

TOP AND BOTTOM FEED LOCKSTITCH SEWING MACHINE

Instruction Manual Parts Catalog

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1. MAIN SPECIFICATIONS

It	em	GC0318-1A	GC0318-1H	GC0318-1B	
Max. sewing	speed (spm)	2000	2000	2000	
Ne	edle	DP×17 18 [#] -22 [#]	DP×5 14 [#]	DP×17 25	
Needle bar s	troke (mm)	35	35	35	
Lubri	ication	Automatic	Automatic	Automatic	
Stitch leng	gth (mm)	0-10	0-5	0-10	
Dungan Cool II G	by hand (mm)	6	6	6	
Presser fool lift	by knee (mm)	13	13	13	

2.INSTALL THE MOTOR (Fig.1)

Align Motor Pulley Groove (B) and Balance Wheel Groove (A) by moving the motor leftward or rightward.

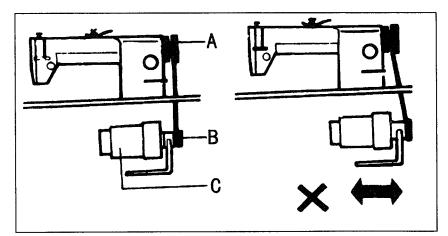


Fig. 1

3. CONNECT THE CLUTCH LEVER WITH THE PEDAL (Fig.2)

- 1) The optimum tilt angle of pedal (A) is approximately 15 deg.
- 2) Adjust Clutch Cover (D) so that Clutch-Lever (C) and Draw Bar (B) run in line.
- 3) The balance wheel should rotate counter-clockwise when viewed from the outside of Balance Wheel (G). The direction of the motor pulley rotation can be reversed by reversing (turning over 180 deg.) the power plug of the motor.
- 4) Adjust the tension of V-belt (F) by turning Motor Vertical Position Screw (E). The proper tension of the V-belt is a slack of 10-20mm when the belt is depressed at the center of the belt by finger.

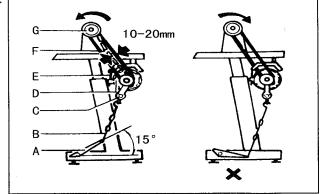


Fig. 2

4. PREPARATION AND LUBRICATION (Fig.3)

1) Cleaning the machine

Before leaving the factory, the machine parts are coated with rust-preventive grease, which may be hardened and contaminated by dust during storage and shipment. This grease must be removed with gasoline.

2) Examination

Though every machine is confirmed by strict inspection and test before leaving the factory, the machine parts may be loose or deformed after long distance transportation with jolt. A thorough examination must be performed after cleaning the machine. Turn the balance wheel to see if there is running obstruction, parts collision, uneven resistance or abnormal noise. If these exist, adjustment must be made accordingly before run-in operation.

3) Oiling

(1) Required amount of oil.

Line (A) on the oil reservoir: Max. oil level.

Line (B) on the oil reservoir: Min. oil level.

If oil level goes down under line (B), oil cannot be distributed to each part of the machine, thus causing the parts a seizure.

(2) Replenishing

Always use only No.18 special machine oil for high speed sewing. Be sure to replenish oil to Line (A) before starting operation.

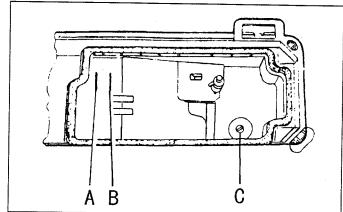


Fig. 3

(3) Replacing oil

To replace oil, remove Screw (C) to drain oil. After completely draining off oil, clean the oil reservoir and securely tighten Screw (C), then fill the reservoir with fresh oil.

5. REPLACE NEEDLES (Fig.4)

Turn the balance wheel to lift needle bar to the upper end of its stroke. Loosen Needle Clamp Screw 1. While keeping the long groove of the needle leftward fully insert the needle shank up to the bottom of the needle socket. Then tighten Needle Clamp Screw A.

Note: Fig. (b): insufficient insertion.

Fig. (c): wrong direction of long groove.

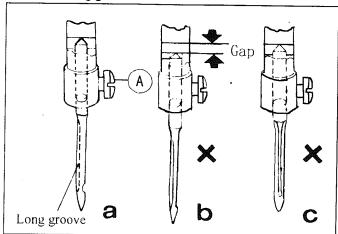


Fig. 4

6. NEEDLE, THREAD AND MATERIAL TO BE SEWN

Needle Size	Thread Number	Material
No.14	No.60-No.65	cotton, Woolen
No.16	No.30-No.50	Muslin, Woolen, Tarpaulin, Thin Leather
No.22		Medium leather, Canvas

7. RUN-IN OPERATION (Fig. 5)

Run-in operation is required for a new sewing machine, or a sewing machine left out operation for a considerable length of time.

- 1) Remove Red Rubber Plugs (A) on the top of the arm and replenish sufficient amount of oil.
- 2) Lift Presser Foot (B).
- 3) Run the machine at a low speed (2000-2500spm) to check oil distributing condition through Oil Check Window (C).
- 4) Perform run-in operation at 2000-2500spm for 30minutes. After a lapse of one month of service during which the working speed is increased gradually and the machine runs sufficiently well, the high speed 5000spm can be adopted according to the nature of the work.

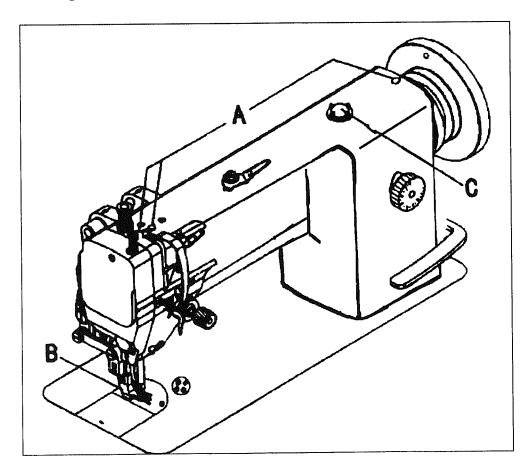


Fig. 5

8. THREADING (Fig.6)

To thread the needle thread, raise needle bar to the upper end of its stroke, lead the thread from spool and perform threading as shown in Fig.6. To draw the bobbin thread, hold the end of the needle thread and turn the balance wheel to lower the needle bar and then to lift it to its highest position. Pull the needle thread and the bobbin thread is drawn up. Put the ends of needle thread and bobbin thread frontward under presser foot.

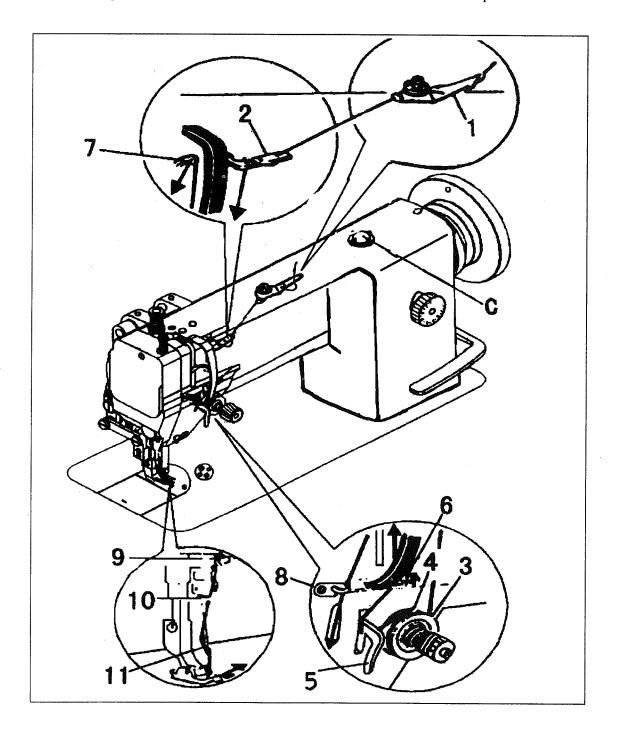


Fig. 6

9. WINDING ADJUSTMENT (Fig.7)

1) The wound bobbin thread should be neat and tight, if not, adjust the winding tension by turning Tension Stud Nut (A) of bobbin winder tension bracket.

Note: nylon or polyester thread should be wound with little tension, otherwise, Bobbin (D) might break or deform.

2) When the wound thread layer does not present a cylindrical shape as shown in Fig.7 (a), loosen Set Screw (B) of bobbin winder tension bracket and slide Bracket (C) leftward or rightward. If thread is wound as shown in Fig.7 (b), move the bracket rightward, but if thread is wound as shown in Fig.7 (c), move the bracket leftward.

After adequately positioning the bracket, tighten Set Screw (B).

3) Do not overfill the bobbin. The optimum length of thread will fill about 80% of bobbin capacity. This can be adjusted by Adjusting Screw (E) of bobbin winder stop latch.

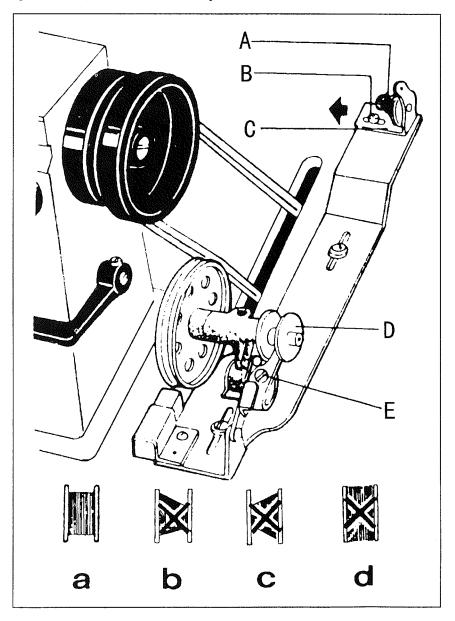


Fig. 7

10. SET STITCH LENGTH AND REVERSE FEEDING (Fig.8)

- 1) Stitch length can be set by turning Dial (A).
- 2) The figures on Face (B) of dial show stitch length in mm.
- 3) Reverse feeding starts when Reverse Feed Lever (C) is depressed, and the machine will feed forward again if Reverse Feed lever (C) is released.

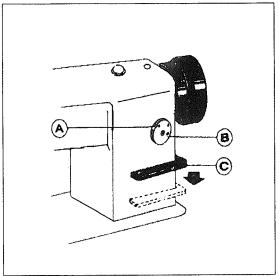


Fig. 8

11.POSITION PRESSER BAR (Fig.9)

- 1) Loosen lock Nut (E) and Pressure Regulating Thumb Screw (A).
- 2) Remove rubber plug from Face Plate (B).
- 3) Loosen Screw (C) and adjust the position of Presser Bar (D) till the presser foot is 6 mm above the throat plate will the presser foot lifted to its highest.
- 4) Tighten Screw (C) and put in the rubber plug.
- 5) Tighten pressure Regulating Thumb Screw (A) and Lock Nut (E).

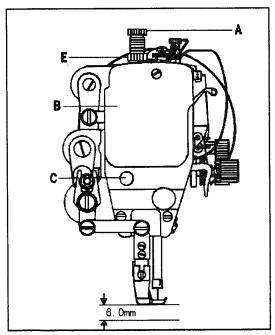


Fig. 9

12. ADJUST THE PRESSURE OF PRESSER EOOT (Fig. 10)

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

First loosen Lock Nut (A). For heavy materials, turn the pressure regulating thumb screw as shown in Fig.10 (a) to increase the pressure, while for light materials, turn the pressure regulating thumb screw as shown in Fig.10 (b) to decrease the pressure. Then tighten Lock Nut (A).

The pressure of presser foot is recommended to be less as long as normal feeding is ensured.

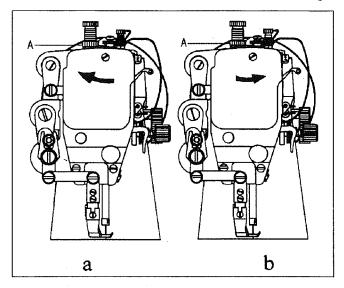


Fig. 10

13. ADJUST THREAD TENSION (Fig.11,12)

In principle, thread tension is to be adjusted in accordance with materials, thread and other factors.

In practice, thread tension is adjusted according to the stitches obtained. The needle thread tension should be adjusted with reference to the bobbin thread tension. Turn Tension Spring Regulating Screw (A) of bobbin case clockwise for more tension, or turn the screw counter-clockwise for less tension.

It is common practice to test the bobbin test the bobbin thread tension as shown in Fig. 12. Hold the end of the thread from delivery eye. If the bobbin case is falling slowly, the proper tension is obtained. The needle thread tension can be adjusted by setting (1) the take-up spring tension. (2) the thread take-up spring stroke and (3) tension spring. All these adjustments will be described in the following.

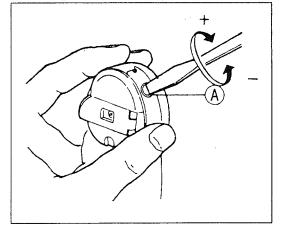


Fig. 11

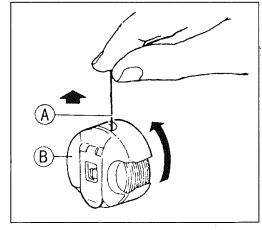


Fig. 12

14. ADJUST THREAD TAKE-UP SPRING (Fig.13,14)

1) Adjusting the thread take-up spring tension

Loosen Set Screw (A), turn Tension Stud (B) clockwise to increase the spring tension, or turn the stud counter-clockwise to decrease the spring tension. After the adjustment, be sure to tighten Set Screw (A). The thread take-up spring tension should be about 30g. To Attain this. First loosen Set Screw (A), turn Tension Stud (B) counter-clockwise to decrease the tension of Thread Take-up Spring (C) to zero, then turn Tension Stud (B) clockwise until Spring (C) comes to the notch of thread tension regulating bushing, and again turn Tension Stud (B) halfway back (counterclockwise) After the adjustment. Tighten Set Screw (A).

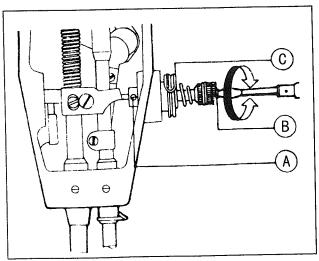


Fig. 13

2) Adjusting the thread take-up spring stroke

Loosen Set Screw (B), turn Stud (C) clockwise to increase the stroke or turn Stud (C) counter-clockwise to decrease the stroke. After the adjustment, tighten Set Screw (B).

Before leaving the factory, the thread take-up spring has properly been adjusted. Readjustment is needed only in the case of special material or special thread.

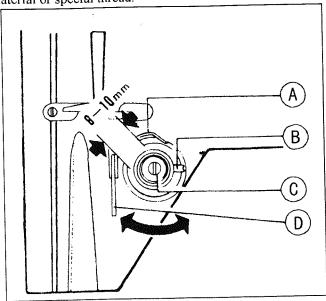


Fig. 14

15. ADJUST THREAD GUIDE AND THREAD TENSION (Fig.15,16)

The position of the thread guide affects stitch tightness and therefore must be adjusted according to sewing materials and sewing conditions.

	1	. 2	3
Thread guide position	Leftward	Center	Rightward
Material weight	Heavy	Medium	Light

Fig15 shows different stitch forms. Normal stitch form should be as shown in Fig.15 (a). When abnormal stitches cause puckering and thread break-age, the tension of needle thread and bobbin thread must be adjusted accordingly.

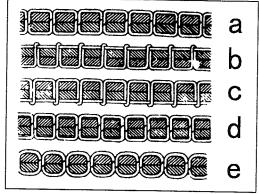


Fig. 15

- 1) In case needle thread tension is too strong or bobbin thread tension is too weak, as shown in Fig.15 (b), turn the thumb nut counterclockwise to decrease the needle thread tension, or tighten the tension spring regulating screw of bobbin case to increase the bobbin thread tension (See Fig.16)
- 2) In case needle thread tension is too weak or bobbin thread tension is too strong, as shown in Fig.15 (c), turn the thumb nut clockwise to increase the needle thread tension, or loosen the tension spring regulating screw of bobbin case to decrease the bobbin thread tension.
- 3) In case of the stitch forms as shown in Fig.15 (d) and (e), adjustments can be made with reference to the above means.

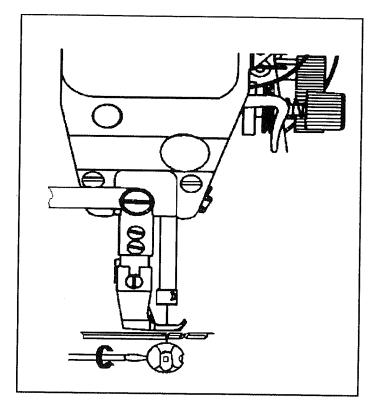
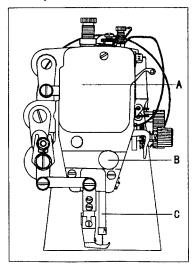


Fig. 16

16. TIME NEEDLE TO ROTAING HOOK (Fig.17,18,19,20)

- A. Adjusting the needle position (See Fig.17)
- 1) Turn balance wheel by hand to bring Needle Bar (C) to the lowest position of its stroke.
- 2) Remove rubber plug from Face Plate (A).
- 3) Loosen Set Screw (B) of needle bar adaptor.
- 4) Move Needle Bar (C) vertically to adjust needle timing.
- 5) After the adjustment, tighten Set Screw (B) and put in the rubber plug. The standard needle timing (See Fig.18) is to align Timing Mark (B) on the needle bar and the bottom of Needle Bar Bushing (A) and meanwhile align the Inner Surface (E) of the hook and the center of Needle Eye (D) when the needle bar gets down to its lowest position.



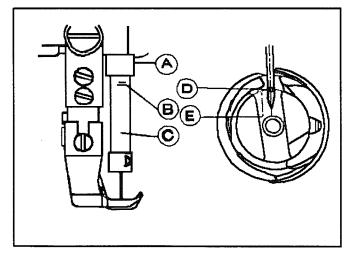


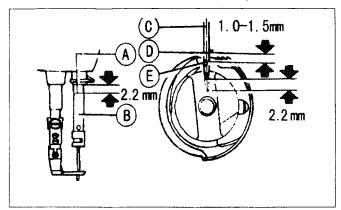
Fig. 17

Fig. 18

B. Adjusting the hook point timing

Timing of needle motion to rotating hook motion has a great effect on sewing performance. The standard hook point timing (See Fig.19) is to align Hook Point (D) and Needle Centerline (C) when Needle Bar (B) is lifted by 2.2mm from the lower end of its stroke. Besides, Hook Point (D) should be 1.0-1.5mm above the upper end of needle eye (E).

When adjusting the hook point timing, also notice that the clearance between the bottom of needle notch and Hook Point (C) should be approx. 0.05mm (See Fig.20)



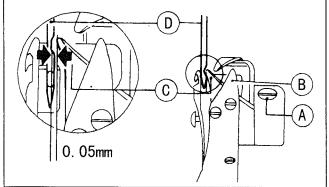


Fig. 19

Fig. 20

17. REPLACE ROTATING HOOK (Fig.21)

- 1) Lift needle bar to the highest position of its stroke.
- 2) Remove throat plate, take down needle and bobbin case.
- 3) Loosen Screw (C) of hook positioner and take down Hook Positioner (A).
- 4) Loosen two Screws (D) of rotating hook.
- 5) Turn balance wheel to raise feed bar to its highest position, then take down the rotating hook by turning it away from feed bar.
- 6) Installing the hook can be done in reverse sequence. Note that Needle (B) and the convex surface of Hook Positioner (A) should align with a clearance of 0.5-0.7mm between them.

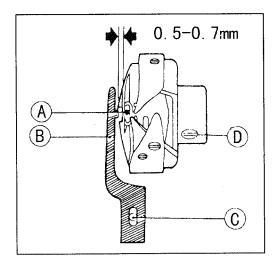
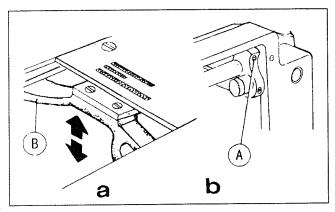


Fig. 21

18. ADJUST THE HEIGHT OF FEED DOG (Fig.22,23)

- 1) Turn balance wheel until feed dog is lifted to its highest position from throat plate surface.
- 2) Loosen Screw (A) of feed lifting rock shaft crank right (See Fig. 22.b)
- 3) Move Feed Bar (B) in the direction shown by the arrow in Fig. 22 (a) to adjust the height of the feed dog. The standard height of feed dog is that the top of feed dog is 1mm above Throat Plate Surface (B).
- 4) After the adjustment, be sure to tighten Screw (A).





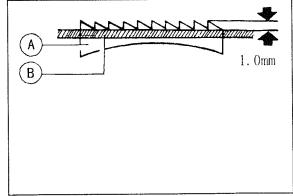
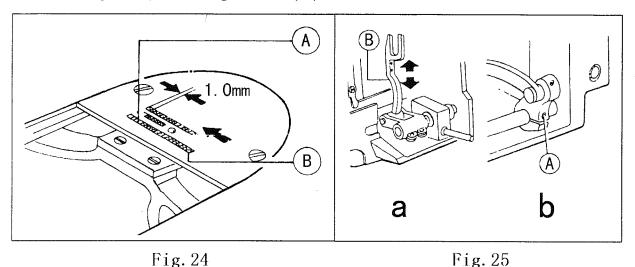


Fig. 23

19. ADJUST THE POSITION OF FEED DOG (Fig.24,25)

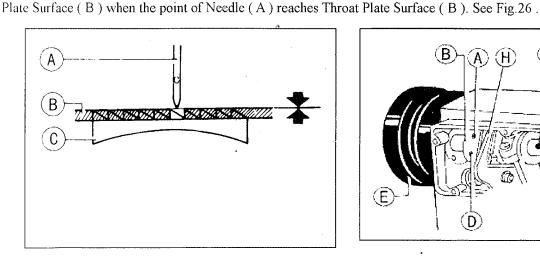
The standard position of feed dog is that the clearance between the front end of the throat plate slot and the first tooth of the fully advanced feed dog is 1 mm, as shown in Fig.24.

- 1) Fully advance the feed dog toward the front end of the throat plate slot.
- 2) Loosen Feed Rock Shaft Crank Screw (A). See Fig.25 (b).
- 3) Move Feed Bar (B) in the direction shown by the arrow in Fig. 25 (a) to adjust the feed dog position.
- 4) After the adjustment, be sure to tighten Screw (A).



20. TIME FEED MOTION TO NEEDLE MOTION (Fig. 26, 27, 28)

The standard timing of feed motion to needle motion is that the top of feed Dog (C) is flush with Throat



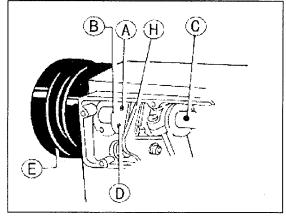


Fig. 26

Fig. 27

If feed motion is not timed to needle motion, adjust as follows (See Figs.27 and 28).

- 1) Remove Arm Side Cover.
- 2) Loosen Set Screws (A) and (D) of feed and feed lifting eccentric.
- 3) Hold Feed and Feed Lifting Eccentric (B) and turn Balance Wheel (E) slowly until the upper edge of Arm Shaft Oil Hole (C) aligns with the lower edge of Reference Hole (G) of feed and feed lifting eccentric.

4) Leave a clearance of 0.3-0.5mm between Feed and Feed Lifting Eccentric (B) and Eccentric Sleeve (H), then tighten Set Screws (A) and (D).

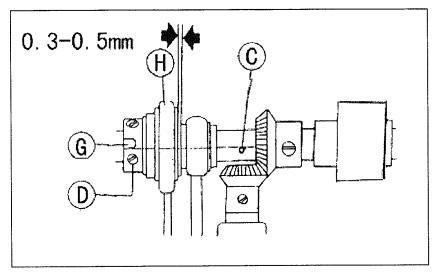


Fig. 28

21. ADJUST OPENING TIME OF THE TENSION DISCS (Fig.29)

within the presser foot lift range of 2-7mm opening time of the tension discs can be adjusted as follows:

- 1) Remove the rubber plug from the back of arm and loosen Screw (A) of knee lifter lever (left).
- 2) Move the tension releasing cam leftward for earlier opening or rightward for later opening. It will facilitate the adjustment to put under the presser foot a block as thick as the presser foot lift.
 - 3) After the adjustment, fully tighten Screw (A).

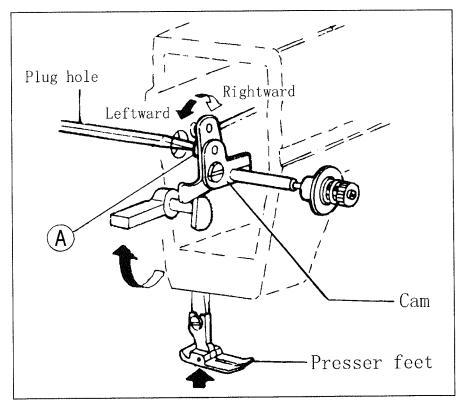


Fig. 29

22. LUBRICATION ADJUSTMENT (Fig.30)

A. Adjusting oil pump.

In ordinary operation, adjustment is not required for the oil pump. If oil splashing does not occur in the oil check window when the machine runs at a low, speed (approx.2000spm), reduce the clearance of the by-pass hole.

B. Adjusting the lubrication of rotating hook.

The lubrication of the rotating hook can be adjusted by Oil Adjusting Screw (A) as follows:

- 1) Turn Oil Adjusting Screw (A) clockwise to increase oil and turn Oil Adjusting Screw (A) counterclockwise to decrease oil.
- 2) Oil Adjusting Screw (A) adjusts oil amount within 5 turns. When Oil Adjusting Screw (A) is fully tightened, oil amount is maximum.
- 3) Readjustment depends on temperature, sewing speed and the like. In practice, oil amount can be judged as follows: remove the throat plate and place a piece of paper on instead, run the machine for about 20 seconds, then check the oil splashed on the paper.

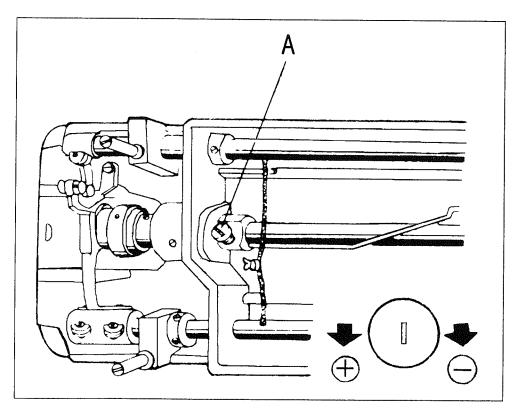
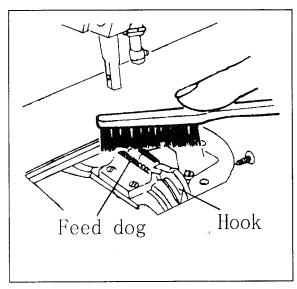


Fig. 30

23. REGULAR CLEANING (Fig.31,32,33)

1) Cleaning feed dog (See Fig.31)

Remove the throat plate and clear off the dust and lint between feed dog tooth slots.



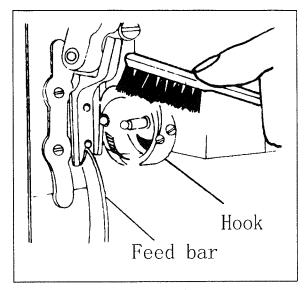


Fig. 31

Fig. 32

- 2) Cleaning rotating hook (See Fig 32)
 Swing out the machine head and clean the hook. Wipe the bobbin case with soft cloth.
- 3) Cleaning oil pump, screen (See Fig.33)
 Swing out the machine head and clear off the dust and dirt on oil pump screen.

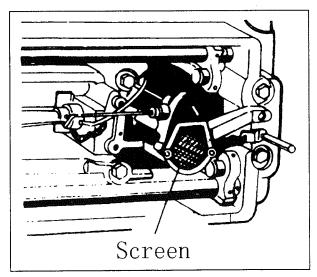
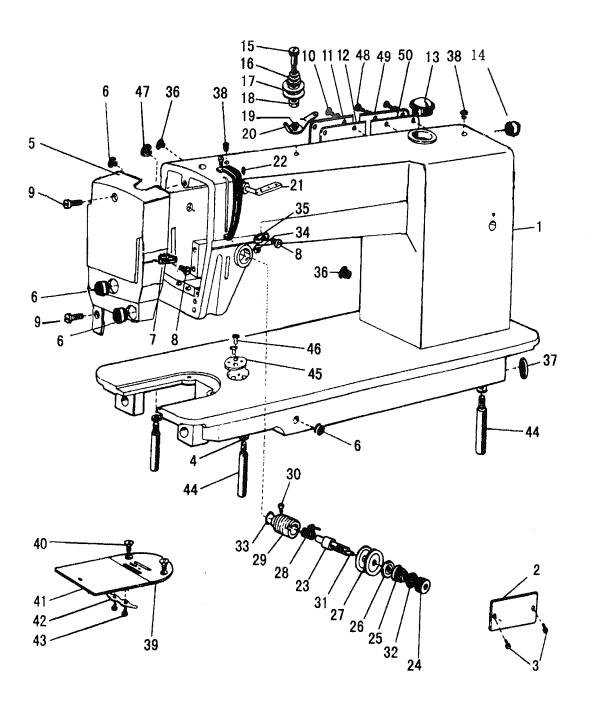


Fig. 33

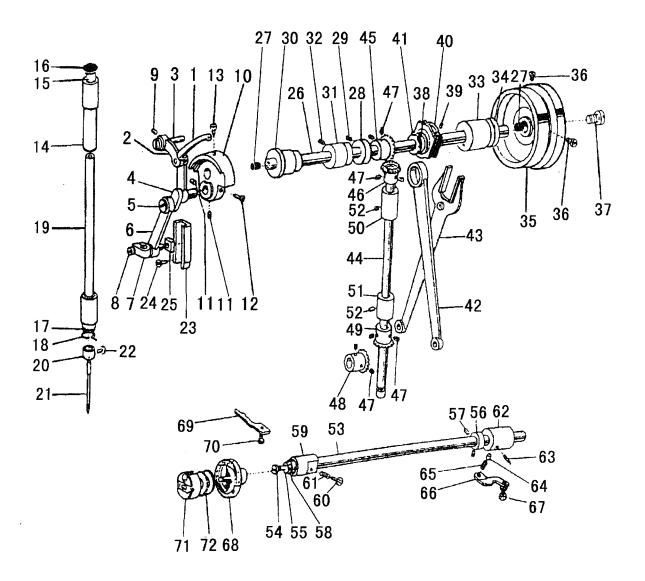


A. ARM BED AND ITS ACCESSORIES

Fig.	Part No.	Description	GC0318-1A	GC0318-1H	GC0318-1B	Remarks
A01	HM307B8001	Arm	1		1	
A01	HN208B8001	Arm		1		
A02	HM309B8001	Trade mark plate	1			
A02	HN207B8001	Trade mark plate		1		
A02	HN105B8001	Trade mark plate			1	
A03	H924025050	rivet	6	6	6	GB/T827 φ2.5×5
A04	H005008060	Spring washer	3	3	3	GB/T 93 6
A05	H2005B0065	Face plate	1	1	1	
A06	HA306B0674	Rubber plug (ф11.8)	3	3	3	
A07	HA607B0671	Thread guide on face plate	1	1	1	
A08	HA106B0676	Thread guide scrèw	1	1	1	SM9/64(40)×6
A09	HA700B2030	Face plate screw	2	2	2	SM11/64(40) × 20
A10	HA300B2170	Screw group	4	4	4	
A11	H6028B8001	Arm side cover	1	1	1	
A12	H6029B8001	Gasket for arm side cover	1	1	1	
A13	H1210B0671	Check window	1	1	1	
A14	H6030B8001	Rubber plug (φ22)	1	1	l	
A15	HA112B0691	Screw type tension stud	1	1	1	SM11/64(40)×16
A16	HA112B0692	Spring for pre-tension	1	1	1	
A17	HA112B0693	Disc for pre-tension	2	2	2	
A18	HA112B0694	Spacer for pre-tension	ı	1	1	
A19	H007013030	Stop ring	1	1	1	GB/T 896 3
A20	HA112B0695	Pre-tension thread guide	1	1	1	
A21	HA100B2100	Three-hple thread guide	. 1	. 1	1	
A22	HA100B2110	Set screw	1	1	1	SM11/64(40) × 5.5
A23	HA115B0701	Thread tension stud	1	1	1	SM1/4(40) × 17
A24	HA310B0701	Oil thumb nut	1	1	1	
A25	HA505B0671	Thread tension spring	1	1	1	
A26	HA310B0702	Thread tension releasing disc	1	1	1	
A27	HA310B0705	Thread tension disc	2	2	2	
A28	HA505B0672	Thread take-up spring	1	1		·
A28	HN106B8001	Thread take-up spring			1	.
A29	HA310B0703	Thread tension regulating bushing	1	1	1	
A30	HA115B0708	Set screw	1	1	1	$SM9/64(40) \times 4$
A31	HA115B0709	Thread tension releasing pin	1	1	1	
A32	HA115B7010	Stop disc	1	1	1	
A33	HA115B7011	Rubber ring	1	1	1	
A34	HA300B2080	Set screw	1	1	1	$SM15/64(28) \times 6.8$
A35	HA600B2050	Thread guide at arm center	1	1	1	
A36	HA300B2090	Rubber plug (φ8.8)	2	2	2	
A37	HA300B2100	Rubber plug (φ27)	1	1	1	·
A38	HA300B2110	Red rubber plug (φ5.7)	2	2	2	į
A38	HA300B2110	Red rubber plug (φ5.7)	2	2	2	

A. ARM BED AND ITS ACCESSORIES

Fig.	Part No.	Description	GC0318-1A	GC0318-1H	GC0318-1B	Remarks
A39	H2100B2120	Needle plate	1			
A39		Needle plate		1		
A39		Needle plate			1	
A40		Needle plate screw	2	2		SM11/64(40) × 4.5
A41	1	Slide plate	1	1	1	
A42		 Slide plate spring	1	1	1	
A43	I	Screw	2	2		SM3/32(56)×2.2
A44		Leg	3	3	3	
A45	1	Plate for guide	1	1	1	·
A46	l .	Screw	2	2	2	SM11/64(40)×5
A47	i	Rubber plug	1	1	1	Ş 1, 01(10) / (0
A48		Screw	5	5	5	
A49		Arm bed cover	1	1	1	
A50	1	Gasket for arm bed cover	1	1	1	
ASU	по41006001	dasket for arm bed cover	1	1	1	,

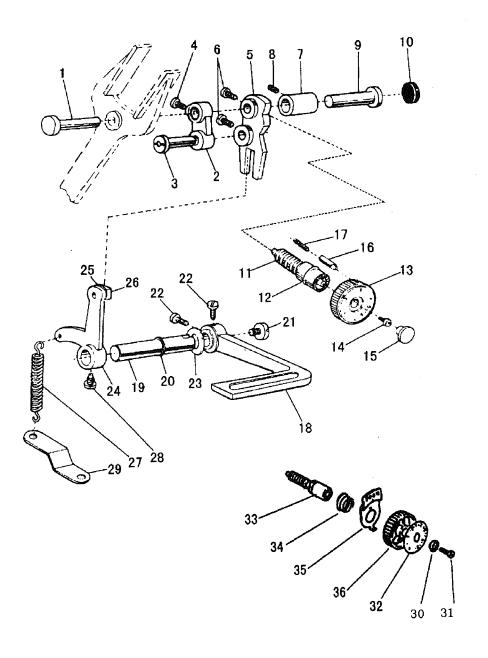


B. NEEDLE BAR AND TAKE-UP. ARM SHAFT AND VERTICAL SHAFT MECHANISM

Fig.	Part No.	Description	GC0318-1A	GC0318-1H	GC0318-1B	Remarks
B01	H11111C104	Therad take-up lever	1		1	
B01		Therad take-up lever		1	-	
B02		Thread take-up lever link		1	1	
B02		Thread take-up lever link		1	_	
B03		Hinge pin	1	1	1	
B03		Thread take-up crank	1	1	1	
B04		Needle bearing	2	2	2	
		Set screw (left-handed)	1	1	1	SM9/64(40)×7
B05		Needlc bar link	1	1	1	
B06		Needle bar adaptor	1	1	1	
B07			1	1	1	SM9/64(40)×6
B08		Screw				$SM15/64(28) \times 10$
B09		Set screw	1	1	1	SM19/04(20) × 10
B10		Needle bar crank	1	1	1	GM1 (4 (40)) (C
B11		Set screw	2	2	2	$SM1/4(40) \times 6$
B12		Set screw	1	1	1	$SM9/32(28) \times 13$
B13		Set screw	1	1	1	$SM9/32/(28) \times 14$
B14	HA100C2080	Needle bar bushing (upper)	1	1	1	
B15	HA100C2100	Felt plug	1	1	1	
B16	HA300C2050	Red rubber plug (φ8.8)	1	1	1	
B17	HA804B0652	Needle bar bushing (lower)	1	1	1	
B18	HA500C2060	Thread guide for needle bar bushing	1	1	1	
B19	H2100C2010	Needle bar	1		1	
B19	HA700G2030	Needle bar		1		
B20	HA500C2030	Thread guide for needle bar	1	1	1	
B21	H2000G2030	Needle	1			DP×17 22#
B21	HA700G2040	Needle		1		DP×5 14#
B21	H6524B8001	Needle			1	DP×5 25#
B22	HA100C2170	Needle clamp screw	1	1	1	$SM1/8(44) \times 4.5$
B23	HA100C2180	Guide for slide block	1	1	1	
B24	HA100C2190	Set screw	2	2	2	$SM11/64(40) \times 8$
B25	HA100C2200	Slide block	1	1	1	
B26	HA304D0651	Arm shaft	1	1	1	
B27	HA104D0652	Rubber plug (Φ7.4×10)	2	2	2	
B28	HA108G0661		1	1	1	
B29	HA105D0662		2	2	2	$SM1/4(40) \times 4$
B30	HA100D2030		1	1	1	
B31	HA100D2040		1	1	1	
B32	HA100C2020	i e	1	1	1	$SM15/64(28) \times 10$
B33	HA300D2020		1	1	1	
B34	HA306D0066		1	1	1	
B35	H2000C2040		1		1	
B36	HA110D0672		2	2	2	$SM15/64(28) \times 12$
	HA110D0072	.	1			$SM11/32(28) \times 10$
B37	T UV10005080	octem	<u> </u>			101111/08 (80) // 10

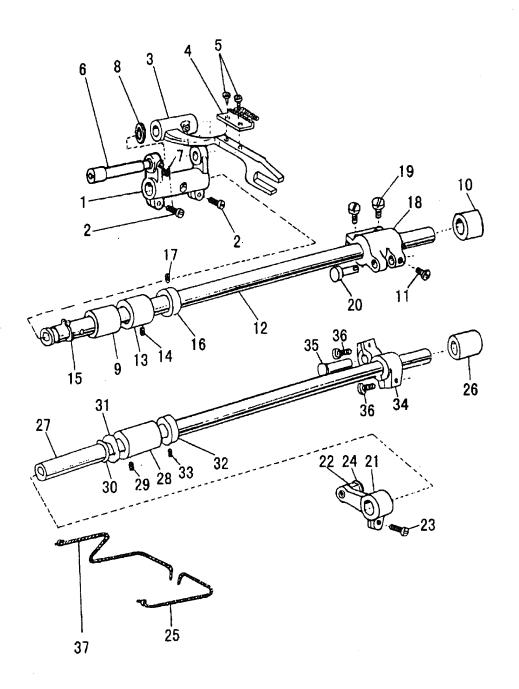
B. NEEDLE BAR AND TAKE-UP. ARM SHAFT AND VERTICAL SHAFT MECHANISM

Γ"						
Fig. No.	Part No.	Description	GC0318-1A	GC0318-1H	GC0318-1B	Remarks
B38	H38111D104	Feed and feed lifting eccentric	1	1	1	
B38		Feed and feed lifting eccentric	1	1	1	
B39	HA3411D308		2	2	2	
B40	í	Eccentric sleeve			1	
B40		Eccentric sleeve		1	1	
B41		Retaining ring	1	1	1	
B42	HA112D3013	Crank rod for feed lifting rock shaft		1	1	
B43	H3800D2020	Feed forked connection	1		1	
B43	HA504D0651	Feed forked connection		1	1	*
B44		Vertical shaft	1	1	1	
B45	HA113D2112	Bevel gear for arm shaft	1	1	1	
B46		Bevel gear for vertical shaft(upper)	1	1	1	
B47	1	Set screw	8	8	8	SM1/4(40) ×7
B48	HA113D2212	Bevel gear for hook shaft	1	l	1	SM1/4 (40) X (
B49	1	Bevel gear for vertical shaft(lower)	1		1	
B50	ł.	Vertical shaft bushing(upper)	1	1	I	
B51		Vertical shaft bushing(lower)	1	1	1	
B52	1	Set screw	2	2	2	$SM15/64(28) \times 10$
B53	HA904E0651	Rotating hook shaft	1	1	1	SM10/04(20) × 10
B54		Filter screw	1		1	SM3/16(32)×9
B55		Filter	1	1	1	DMD/10(32) X 9
B56	HA305E0661	Collar for hook shaft		1	1	
B57		Set screw	2	2	2	SM15/64(28) × 4.5
B58		Oil seal for rotating hook shaft	1		1	OMIO/04(20) × 4. 5
B59		Hook shaft bushing (left)	1		1	
B60		Oil adjusting screw	1	1		SM11/64(40) × 28.5
B61		Spring for oil adjuster	1	1	1	SM11/04(40) X 28. 5
B62		Hook shaft bushing (right)	1		1	
B63	1	Oil pipe for hook shaft bushing	1	1	1	
B64		Plunger	1	1	1	
B65		Plunger spring	1	1	1	
B66		Guide plate	1	1	1	
B67		Screw	1	1		SM15/64(28)×10
B68	H1105E0066	Rotating hook complete	1	^	1	SM10/04(28) × 10
B68	I	Rotating hook complete	^	1		
B68	1	Rotating hook complete		^	1	
B69		Rotating hook positioner	1		1	
B69	j	Rotating hook positioner		1	•	
B70		Screw	1	1	1	SM11/64(40) × 13
B70	i	Screw	^	1	1	SM11/64 (40) × 13 SM11/64 (40) × 13
B71	1	Bobbin case	1	*	1	Ouri 1/ 04 (40) ∨ 19
B71	i	Bobbin case	1	1	1	
B72	l	Bobbin	1	1	1	
B72	i	Bobbin	1	1	1	
					1	



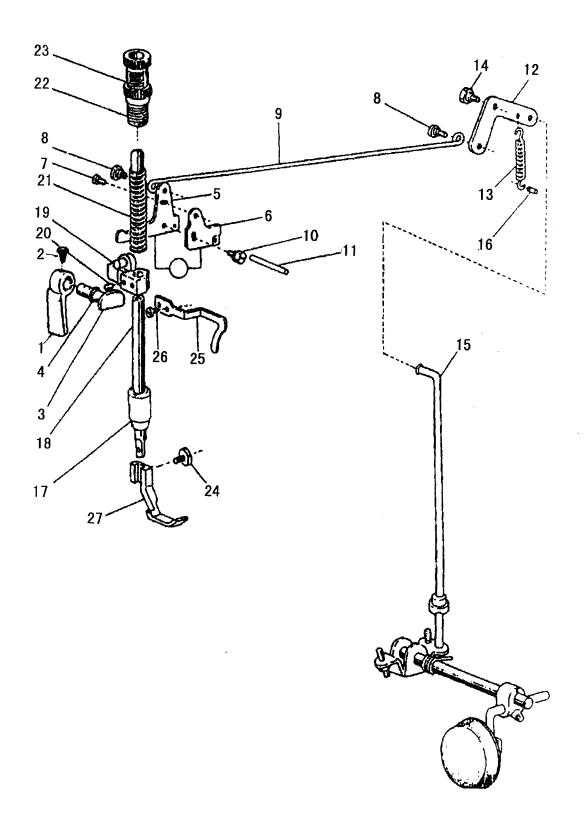
C.STITCH REGULATOR MECHANISM

Fig. No.	Part No.	Description	GC0318-1A	GC0318-1H	GC0318-1B	Remarks
C01	HA104F0651	Hinge pin	1	1	1	
C02	HA104F0652	Feed connecting link	1	1	1	
C03	HA104F0653	Hinge pin for feed connecting link	1	1	1	
C04	HA104F0654	Screw	1	1	1	SM15/64(28)×10
C05	H1000F2010	Feed regulator	1		1	
C05	HA105F0661	Feed regulator		1		
C06	HA104F0654	Screw	2	2	2	$SM15/64(28) \times 10$
C07	HA300F2020	Feed regulator bushing	1	1	1	
C08	HA100C2020	Set screw	1	1	1	SM15/64(28)×10
C09	HA100F2040	Hinge pin for feed regulator	1	1	1	
C10		Rubber plug (Φ20×6)	1	1	1	·
C11	HA109F0671	Feed regulator screw bar		1		
C12	HA109F0674	0-ring	2	2	2	Φ14×2.4
C13	HA307F0661	Dial		1		
C13		Dial	1		1	
C14		Screw		1		SM3/16(28) ×8
C15		Rubber plug		1		
C16		Stopper pin	1	1	1	
C17		Spring for stopper pin	1	1	1	
C18		Reverse feed lever	1	1	1	
C19		Reverse feed lever shaft	1	1	1	
C20		0-ring	1	1	1	Φ9×1.9
C21		Screw	1	1	1	$SM3/16(28) \times 6.5$
C22		Screw	2	2	2	
C23		Washer	1	1.	1	
C24	1	Reverse feed crank	1		1	
C24		Reverse feed crank		1		
C25		Slide block pin	1	1	1	
C26		slide block	1		1	
C26		slide block	:	1		
C27		Spring for feed crank	1	1	1	
C28		Screw	1	1		$SM15/64(28) \times 10$
C29		Bracket spring	1	1	l	
C30		Bushing	1		1	
C31		Screw	1		1	
C32		Plate for stitch length	1		1	
C33		Screw bar	1		l l	
C34		Coil spring	1		1	
C35		Stopper pin releasing lever	1		1	
C36	HA7421F120	Dial	1		I	
•						
<u>l</u>				[



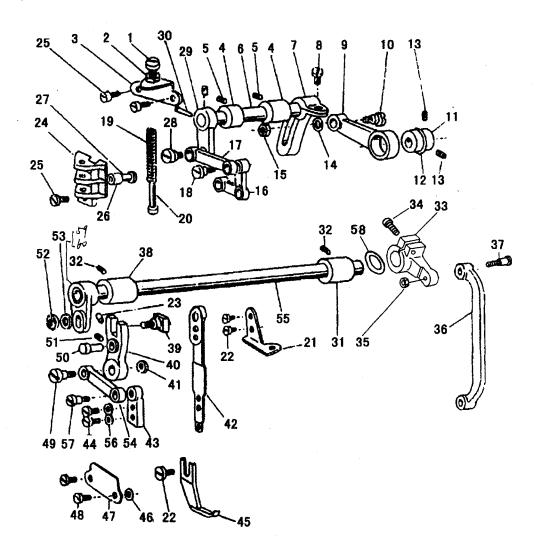
D.FEEDING AND FEED LIFTING MECHANISM

Fig. No.	Part No.	Description	GC0318-1A	GC0318-1H	GC0318-1B	Remarks
D01	HA104G0011	Feed rock shaft crank (left)	1	1	1	
D02	HA304G0656	Screw	2	2	2	SM3/16(28)×15
D03	H2004L0661	Feed bar	1	1	1	
D04	HA104G0653	Feed dog	1		1	
D04	H2900G2010	Feed dog		1		
D04	H6521B8001	Feed dog			1	
D05	HA104G0654	Screw	2	2	2	$SM1/8(44) \times 6$
D06	H1100G2040	Hinge pin for feed regulator	1	1	1	
D07	HA100C2190	Screw	1	1	1	SM11/64(40)×8
D08	HA104G0656	Washer	1	1	1	
D09	H2100G2060	Bushing for feed rock shaft(left)	. 1		1	
D10	H2100G2050	Bushing for feed rock shaft(right)	1		1	
D11	HA104F0654	Screw	1	1	1	SM15/64(28)×10
D12	H2100G2010	Feed rock shaft	1	1	1	
D13	H2100G2020	Bushing for feed rock shaft	1	1	1	
D14	HA305E0662	Set screw	1	1	1	SM15/64(28)×4
D15	H007009150	C-type stop ring	1	1	1	
D16	HA108G0661	Collar	1	1	1	
D17	HA105D0662	Set screw	2	2	2	SM1/4(40)×4
D18	H2100G2030	Feed rock shaft crank (right)	1	1	1	
D19	HA104G0012	Screw	2	2	2	SM3/16(28) × 12
D20	H2100G2040	Hinge pin	1	1	1	
D21	HA305G1011	Feed lifting rock shaft crank (left)	1	1	1	
D22	HA305G1012	Shaft	1	1	1	SM11/64(40)×12
D23	HA111G0683	Screw	1	1	1	
D24	HA310G3011	Eccentric sleeve	1	1	1	
D25	HA305G0664	Oil braid	1	1	1	
D26	H2100G2070	Bushing for feed lifting rock shaft(right)	1		1	
D27	HA200G2020	Feed lifting rock shaft	1		1	
D27	HA305G0663	Feed lifting rock shaft		1		
D28	HA100G2120	Bushing for feed lifting rock shaft	1	1	1	
D29	HA100C2020	Set screw	1	1	1	SM15/64(28)×10
D30	H007009150	C-type stop ring	1	1	1	
D31	HA100G2130	Washer	2	2	2	SM1/4(40)×4
D32	HA108G0661	Collar for feed lifting rock shaft	1	1	1	
D33	HA105D0662	Screw	1	1	1	
D34	HA306G0671	Feed lifting rock shaft crank (right)	1	1	1	
D35	HA100G2070		2	2	2	SM3/16(28)×12
D36	HA104G0012	Screw	1	1	1	
D37	HA304G0655	Oil braid	1	1	1	



E. PRESSER FOOT MECHANISM

Fig.	Part No.	Description	GC0318-1A	GC0318-1H	GC0318-1B	Remarks
E01	Н2104Н0651	Presser bar lifter	1	1	1	
E02	HA100B2110	Set screw	1	1	1	SM11/64(40)×5
E03	H2104H0661	Presser bar lifting cam	1	1	1	
E04	HA300H2080	Oil seal fot presser bar litting cam	1	1	1	8×1.9
E05	HA107H1011	Knee lifter lever (left)	1	1	1	
E06	HA305H6611	Tension releasing cam	1	1	1	
E07	HA107H1013	Screw	1	1	1	$SM11/64(40) \times 6$
E08	НА107Н0662	Hinged screw	2	2	2	$SM3/16(28) \times 3.5$
E09	HA107H0663	Knee lifter rod	1	1	1	
E10	HA100H2050	Bolt	1	1	1	$SM15/64(28) \times 13$
E11	HA100H2060	Tension releasing pin	1	1	1	
E12	l	Knee lifter lever (right)	1	1	1	
E13		Spring	1	1	1	
E14		Bolt for knee lifter lever	1	1	1	$SM15/64(28) \times 10$
E15		Knee lifter connecting rod	1	1	1	
E16		Pin for spring	1	1	1	
E17	l	Presser bar bushing	1	1	1	
E18		Presser bar	1	1	1	
E19		Presser bar lifting bracket	1	1	1	
E20		Set screw	1	1	1	SM15/64(28) ×7
E21		Presser spring	1	1	1	
E22	1	Pressure regulating thumb screw	1	1	1	$SM1/2(28) \times 43$
E23		Lock nut	1	1	1	Birty B (Bo) / Clo
E24		Set screw		1	l .	SM9/64(40)×11
E25	1	Upper thread guide	1	1	1	
E26	ł	Screw	1	1	l	SM11/64(40)×5
E27		Presser loot complete	1	1		Sill 17 01 (10) 7 (0
E27		Presser loot complete	1			
E27	ł	Presser loot complete		1	1	

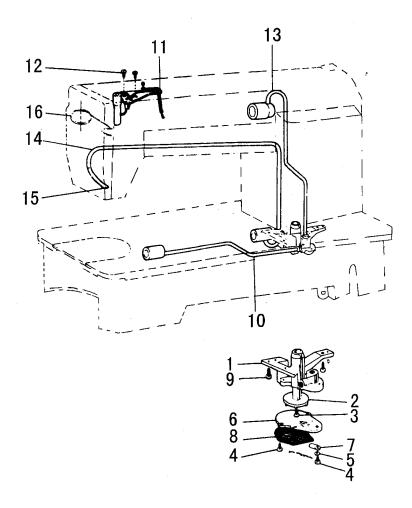


F. PRESSER LIFTING. FEEDING MECHANISM

		T	,			
Fig. No.	Part No.	Description	GC0318-1A	GC0318-1H	GC0318-1B	Remarks
F01	H2010J0065	Lifting presser adjusting screw	1	1	1	$SM9/32(28) \times 35$
F02	Ī	Lifting presser adjusting nut	1	1	1	SM9/32 (28)
F03	1	Lifting presser bracket for spring	1	1	1	5.40, 62 (20)
F04	l	Presser lifting shaft bushing	2	2	2	
F05		Screw	2	2	2	
F06		Shaft	2	2	2	
F07		Presser lifting shaft	1	1	1	
F08		Set screw	1	1	1	,
F09	H2104I0065	Eccentric wheel rod	1	1	1	
F10	H2000J2100	Set screw	1	1		M6(0.75)×29
F11		Eccentric wheel	1	1	1	Ma (er y y y v g)
F12	H007009250	C-type stop ring	1	1		GB/T894. 1 25
F13		Screw	2	2		$SM1/4(40) \times 6$
F14	H2013J0065	Washer	1	1	1	1111, 1 (10)
F15	H0030020608	Nut	1	1		GB/T6170 M6×0.75
F16		Presser feed crank	1	1	1	0D, 10110 mov. 0. 10
F17		Presser feed crank link	1	1	1	
F18		Screw	1	1		SM3/16(28) × 12.6
F19	· ·	Lifting presser spring	1	1	ı	onio, 10 (20) 7 (12. 0
F20		Presser spring guide	1	1	1	
F21		Lifting presser guide plate	1	1	1	
F22		Screw	1	1	1	SM9/64(40)×13
F23	H609025180	Pin	1	1		GB/T879. 1 2. 5×18
F24	H2000J2020	Lifting presser plate	2	2	2	,, -
F25		Screw	1	1	1	SM9/64(40)×10
F26	Н2000Ј2030	Lifting presser spring guide pin	1	1	1	
F27		Feed crank guide shaft	1	1	1	
F28	H2004J0662	Screw	1	1	1	SM1/4(40)×15
F29	H2011J0065	Presser lifting crank	1	1	1	·
F30	Н602040200	Pin	1	1	1	GB/T117 4×20
F31	H3209B0065	Presser swing shaft bushing (right)	1	1	1	
F32	HA100B2110	Screw	2	2	2	SM11/64(40)×5.5
F33	H6013F8001	Presser swing crank(right)	1	1	1	
F34	H6017F8001	Screw	1	1	1	SM1/4(24×19.7)
F35	H2010J0066	Lifting presser adjusting nut	1	1	1	SM9/32(28)
F36	H2100I2030	Presser swing crank (right) rod	1	1	1	
F37	H2012N0066	Screw	1	1	1	$SM9/32(28) \times 28$
F38	H2100I2060	Presser swing shaft bushing (left)	1	1	1	
F39	H2121I0065	Lifting presser sway crank shaft compl	1	1	1	
F40	H2013N0069	Lifting presser sway crank	1	1	1	
F41		Lock nut	1	1		SM1/4(40)
F42	H2004J0654	Presser rod	1	1	1	
F43	H2004J0661	Presser rod guide	1	1	1	

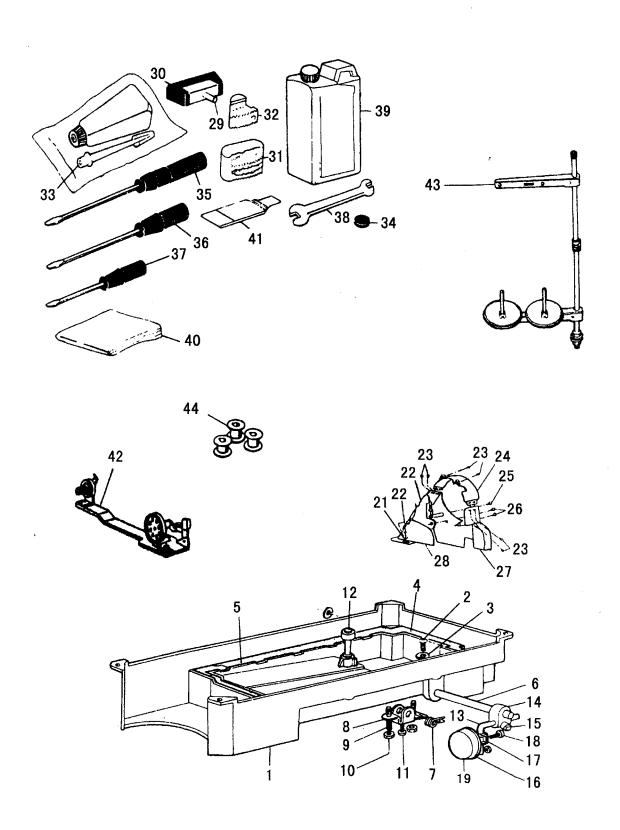
F. PRESSER LIFTING, FEEDING MECHANISM

Fig. No.	Part No.	Description	GC0318-1A	6С0318-1Н	GC0318-1B	Remarks
F44	H2004J0067	Screw	-			(N/O / O / / / O) O
F45	H2100I2040	Out presser	2	2	2	$SM9/64(40) \times 9$
F45		Out presser	1		1	
F45		Out presser		1	,	
F46	i	Space for presser rod plate	2	0	1	
F47		Lifting presser rod plate	l	2	2	
F48		Screw	1	1	1	CM11 /C4 (40) > 414 5
F49		Screw	2	2	2	SM11/64 (40) × 14. 5
F50		Lifting presser sway crank guide pin	1	1	1	$SM1/4(40) \times 26$
F51	H2100I2070	_	1	1	l	SM1/4 (40)
F52			1	1	1	$SM3/16(32) \times 7$
F53	i	Presser crank connecting nut Washer	1	1		SM1/4(24)
F54			1	1	1	
F55	i	Presser swing crank(left)	1	1	1	
F56		Presser swing shaft	1	1	1	
	1	Washer	1	1	1	015 (1 (12) 11 =
F57 F58		Screw	1	1		$SM1/4(40) \times 15$
F30	H6018F8001	unhan tacil rock shaft crank lefts	1	1	1	
Lal	11 330 p	Capper feed rook steady corasin riggs			- 1	, ,
F60	H60 [1800]	Upper feed rock shaft crank lleft; Surew	(1	1	2W12/84(98)X18



G.OIL LUBRICATION MECHANISM

Fig.	Part No.	Description	GC0318-1A	GC0318-1H	GC0318-1B	Remarks
G01	HA100I2010	Oil pump body	1	1	1	
G02	1	Oil pump impeller	1	1	1	
G03	1	Screw	1	l	1	
G04	HA300I2050	Screw	3	3	3	
G05		Spring washer	1	1	1	
G06		Oil pump fitting plate	1	1	1	
G07		Oil adjusting plate	1	1	1	
G08		Oil pump screen complete	1	1	1	
G09		Screw	3	3	3	
G10	HA113I0066	Oil pipe for hook shaft	1	1	1	
G11		Oil braid fitting plate	1	1	1	
G12	1	Screw	2	2	2	·
G14	1	Oil return pipe	1	1	1	
G15		Felt pouch	1	1	1	
G16	1	pipe holder	1	1	1	



H. OIL RESERVOIR AND OTHER ACCESSORIES

					~	
Di-			GC0318-1A	GC0318-1H	GC0318-1B	
Fig.	Part No.	Description	3318	3318	3318	Remarks
1.01)25	25	ij	
H01	HA304J0651	Oil seservoir	1	1	1	
H02		Oil drain screw	1	1	1	
Н03	HA104J0653	Washer	1	1	1	
H04	HA104J0654	Gasket for oil reservoir (small)	1	1	1	
H05	HA104J0655	Gasket for oil reservoir (big)	1	1	1	
H06	HA300J2160	Hinge pin for knee lifter	1	1	1	
Н07	HA104J0657	Backspring for knee lifter	1	1	1	
Н08	HA104J0658	Knee lifter stop bracket	1	1	1	
H09	HA104J0659	Adjusting screw	2	2	2	SM15/64(28) × 28
H10	HA104J6510	Lock nut	2	2	2	
H11	HA110D0672	Screw	1	1	1	$SM15/64(28) \times 14.8$
H12	HA106J0661	Knee lifter lifting rod	1	1	1	
H13	HA106J0662	Knee lifter bell crank	1	1	1	
H14	HA106J0663	Joint for knee lifter bell crank	2	2	2	
H15	HA300J2180	Set screw	1	1	1	$SM5/16(28) \times 16$
H16	HA106J0665	Knee lifter plate	1	1	1	
H17	HA106J0666	Bracket for knee lifter plate	1	1	1	
H18	HA106J0667	Set screw	1	1	1	$SM15/64(28) \times 8$
H19	HA106J0668	Pad for knee lifter plate	4	4	4	
H20	H801045200	Screw	4	4	4	GB/T99 4.5×20
H21	HA300J2230	Washer	1	1	1	
H22	H200800068	Belt(upper)	6	6	6	
H23	HA300B2170	Screw	1	1	1	SM11/64(40) ×8
H24	H200800671	Belt mark complrte	1	1	1	
H25	HA300J2250		2	2	2	M4 × 12. 5
H26	HA300J2280	l .	1	1	1	$SM15/64(28) \times 8$
H27		Belt (lower)	1		1	
H28	HA305J0665		1	1	1	
H29	HA110J0701		2	2	2	
H30	HA307J0671	Rubber socket for hinge	2	2	2	
H31	HA300J2050		2	2	2	
H32	HA300J2060		2	2	2	
H33	HA100J2110		1	1	1	
H34	HA100J2120				1 1	
H35	HA300J2070			1 1	1	
H36	HA300J2200		$\begin{bmatrix} 1 \\ 1 \end{bmatrix}$	1	1	
Н37	HA300J2210		1	1 1	1	
H38	HA300J2220		1 1	1	1	
H39	HA100J2170		1	1	1	
H40	HA100J2180		4	'	'	
H41	H2000G2030		*	4		
H41	HA700G2040			*	4	
H41	HN504C8001	Needle *	Ц			

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H. OIL RESERVOIR AND OTHER ACCESSORIES

Fig. No.	Part No.	Description	GC0318-1A	GC0318-1H	GC0318-1B	Remarks
H42	HA905S0066	Bobbin winder assy	1		1	
H42	HA905S0067	Bobbin winder assy		1		
H43	HA200J2030	Washer	1	1	1	
H44	H1100E2010	Bobbin	3		3	
H44	HA100E2170	Bobbin		3		
1			3	3		

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