

LOCKSTITCH

333 D

333 AUT

333 LH

333 LH AUT



Spareparts for the Global line of machines

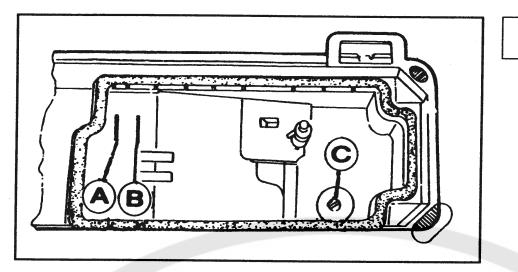
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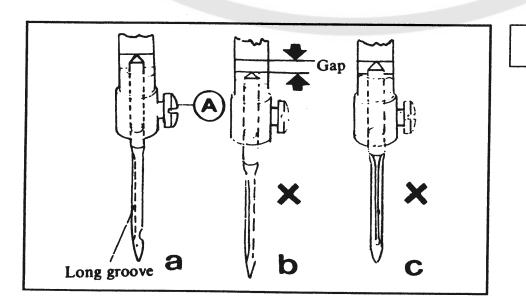
Global Parts is ready for you!

MAIN SPECIFICATIONS

333 D / 333 AUT
Normal
5000
1738
31.8
Automatic lubrication
0-5
13 mm
Standard

Туре	333 LH / 333 LH AUT
Material weight	Medium/Heavy
Max. sewing speed (spm)	3500
Needle	134
Needle bar stroke (mm)	35
Lubrication	Automatic lubrication
Stitch lenght	0-7
Presser footlift by knee	13 mm
Hook	Large





1. PREPARATION AND LUBRICATION

Fig. 1

1) Cleaning the machine.

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

2) Examination.

Though every machine is checked by strict inspection and tested before leaving the factory, the machine parts may become loose af long distance transportation. A thorough examination must be petermed after cleaning the machine. Turn the balance wheel to see if there is a running obstruction, uneven resistance or abnormal noise. If these exist, adjustments must be made accordingly before running in.

- 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 to seize.

(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.

(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.

2. REPLACE NEEDLES

Fig. 2

Turn the balance wheel to lift needle bar to the upper end of its stroke. Loosen Needle Clamp Screw A.

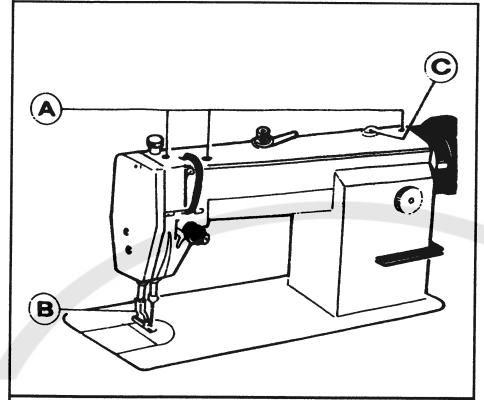
While keeping the long groove of the needle to the left fully insert

the needle shank up to the bottom of the needle socket. Then tighten Needle Clamp Screw A.

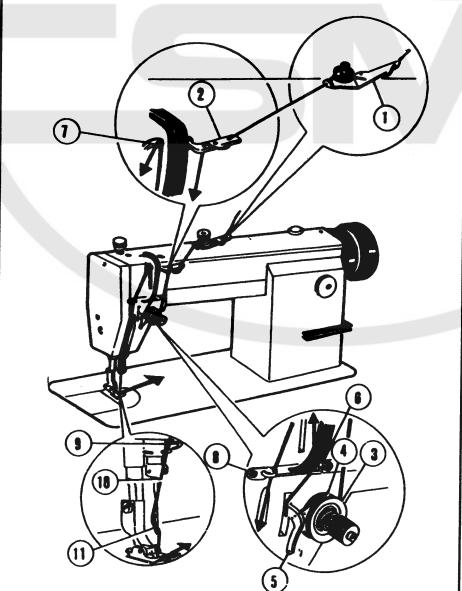
Note: Fig. (B): insufficient insertion.

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

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3. RUN-IN OPERATION

Fig. 3

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

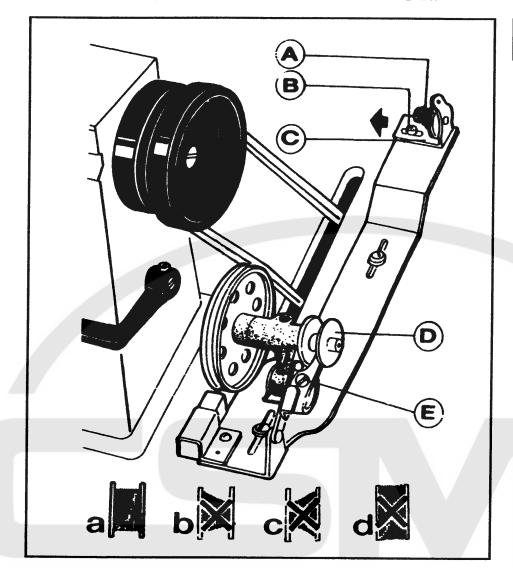
- 1) Remove Red Rubber Plugs (A) on the top of the arm and add a sufficient amount of oil.
 - 2) Lift Presser Foot (B)
- 3) Run the machine at a low speed (40%-50% of max. speed) to check oil distributing condition through Oil Check Window (C).
- Perform run-in operation at 40%-50% of Max. speed for 30 n. Ates. After a lapse of one month of service during which the working speed is increased gradually and the machine runs sufficiently well, the Max. speed can be adopted according to the nature of the work.

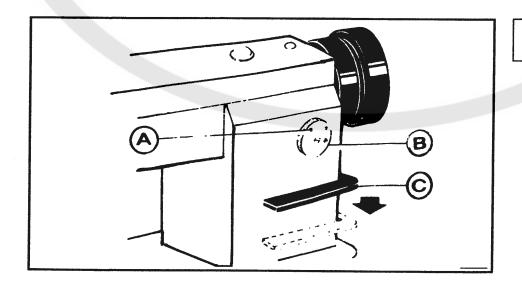
4. THREADING

Fig. 4

To thread the needle, 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 bar and then to lift it to its highest position. Pull the needle thread until the bobbin thread is drawn up. Pull the ends of the needle and bobbin thread frontward under presser foot.

GL\(\phi\)BAL LOCKSTITCH





5. WINDING ADJUSTMENT

Fig. 5

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) to the left or right. If 'read is wound as shown in Fig. 7 (b), move the bracket to the le.

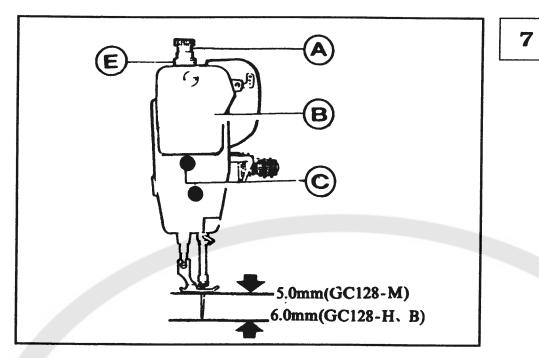
After adequately positioning the bracket, tighten Set Screw (B).

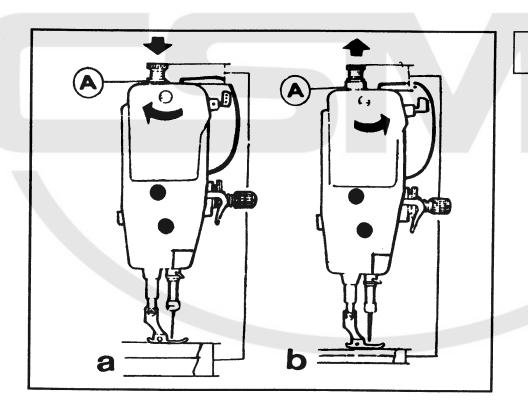
3) Do not overfill the bobbin. The maximum length of thread will fill about 80% of bobbin capacity. This can be adjusted by Adjusting Screw (E) of bobbin winder stop latch.

6. SET STITCH LENGHT AND REVERSE FEEDING

Fig. 6

- J 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.





7. POSITION PRESSER BAR

Fig. 7

- 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 until the presser foot is 5.0 mm (GC 128-M:
- 5.0 mm, GC 128-H and GC 128-B: 6.0 mm) above the throat plate with the presser foot lifted to its highest position.
 - 4) Tighten Screw (C) and replace rubber plug.
 - 5) Tighten Pressure Regulating Thumb Screw (A) and Lock Nut (E).

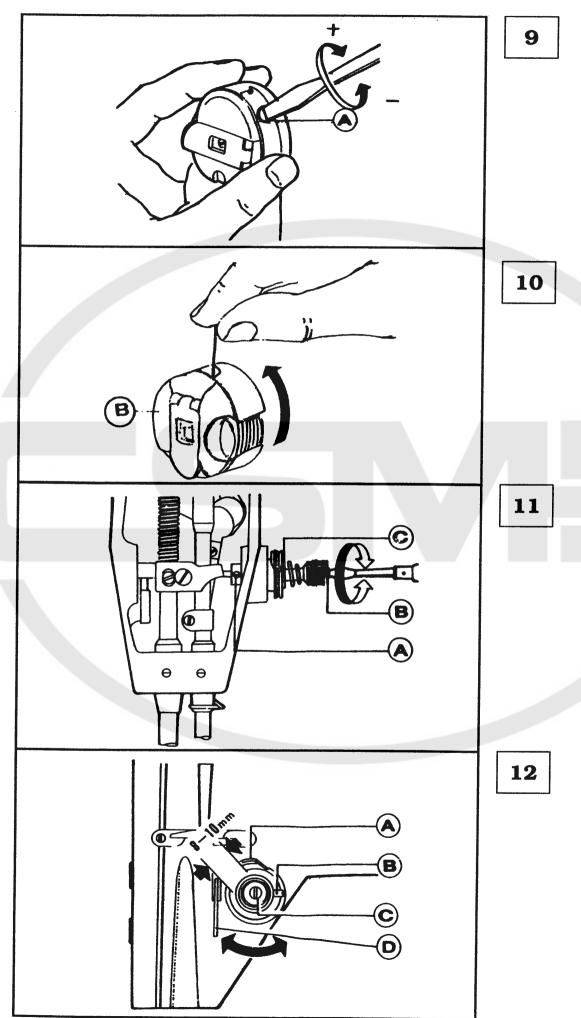
8. ADJUST THE PRESSURE OF PRESSER FOOT

Fig. 8

Pressure of presser foot is to be adjusted 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 the foot is recommended to be minimal as long as normal feeding is ensured.



9. ADJUST THREAD TENSION

Fig. 9.10

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 anti-clockwise for less tension.

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

10. ADJUST THREAD TAKE-UP SPRING

Fig. 11,12

1) Adjusting the thread take-up spring tension.

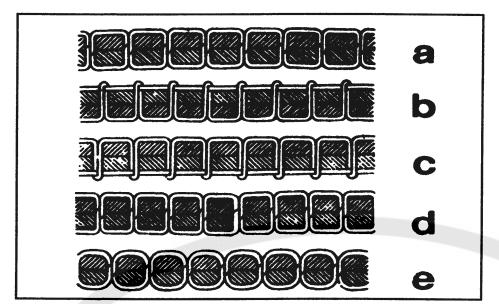
Loosen Set Screw (A), turn Tension Stud (B) clockwise to increase the spring tension, or turn the stud anti-clockwise to decrease the spring tension.

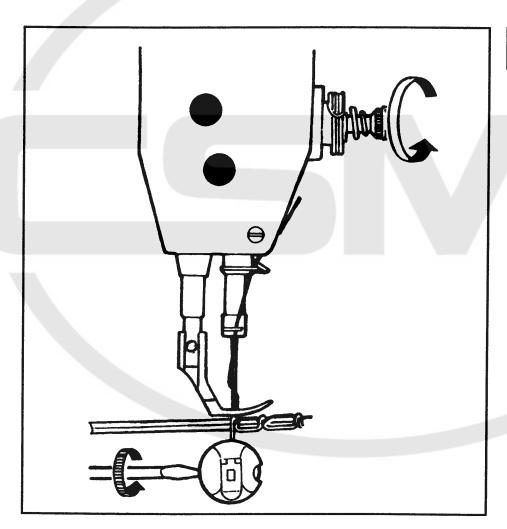
After the adjustment, be sure to tighten Set Screw (A).

The thread take-up spring tension should be about 30 g. To Obtain this, first loosen Set Screw (A), turn Tension Stud (B) anti-wise 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 (anti-clockwise) After the adjustment, tighten Set Screw (A).

2) Adjusting the thread take-up spring stroke.

Loosen Set Screw (B), turn Stud (C) clockwise to increase the stroke or turn Stud (C) anti-clockwise to decrease the stroke. After adjustment, tighten Set Screw (B). Before leaving the factory, the thread take-up spring has been properly adjusted. Readjustment is needed only in the case of special material or special thread.





11. ADJUST THREAD GUIDE AND THREAD TENSION

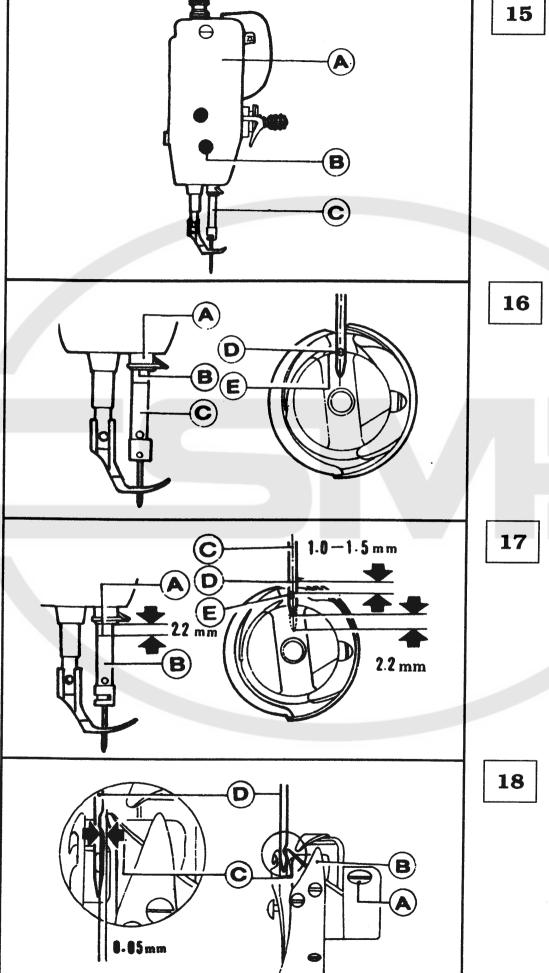
Fig. 13,14

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	To the left	Center	To the right	
(Material weight	Heavy	Medium	Light	

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

- 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 anti-clockwise 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 or bobbin case to decrease the bobbin thread tension.
 - 3) In case of the stitchformation shown in Fig. 15 (d) and (e),
- stments can be made with reference to the above means.



12. TIME NEEDLE TO ROTATING HOOK

Fig. 15,16,17,18

- 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 Time Mark (B) on the needle bar and the bottom of the Needle Bushing (A) and meanwhile align the Inner Surface (E) of the hook and the center of Needle Eye (D) when the needle bar gets

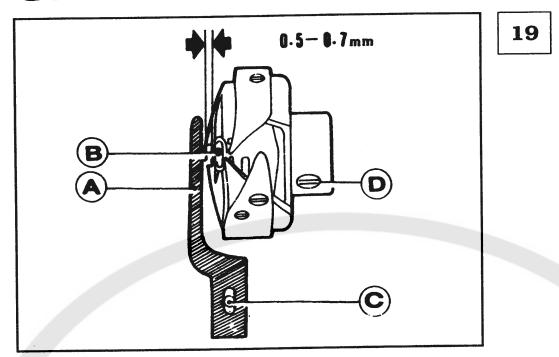
B. Adjusting the hook point timing.

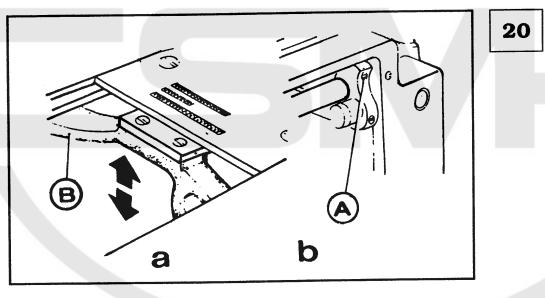
down to its lowest position.

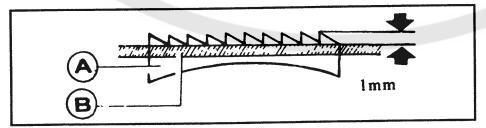
Timing of needle motion to rotating hook motion has a great effect on sewing performance.

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 2.2 mm (GC 128-B:2.2 mm GC 128-M and GC 128-H:2.4 mm) of its stroke. (2.4 mm suitable for type B and type C). Besides, Hook t (D) should be 1.0-1.5 mm above the upper end of the 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. 0.05 mm (See Fig. 20)







13. REPLACE ROTATING HOOK

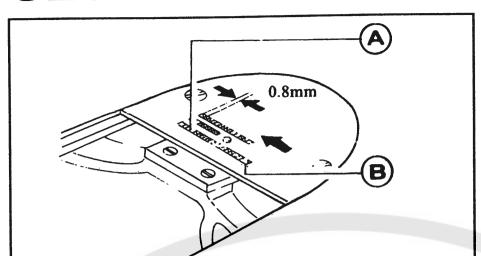
Fig. 19

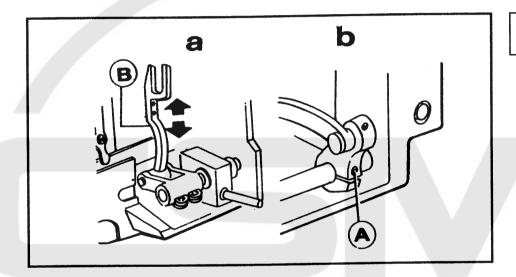
- 1) Lift needle bar to the highest position of its stroke.
- 2) Remove throat plate, take down needle and bobbin case.
- 3) Loosen Screw (C) of hook positioner and take down Hook Positioner (A).
 - 4) Loosen two screws (D) of rotating hook.
- 5) Turn balnce wheel to raise feed bar to its highest position, 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 a ... with a clearance of 0.5-0.7 mm between them.

14. ADJUST THE HEIGHT OF FEED DOG

Fig. 20,21

- 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 is 1.0 mm above Throat Plate Surface (B).
 - 4) After the adjustment, be sure to tighten Screw (A).





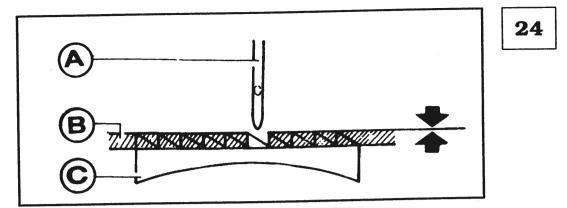
15. ADJUST THE POSITION OF FEED DOG

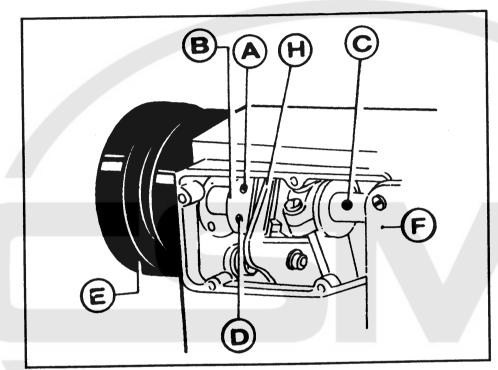
Fig. 22,23

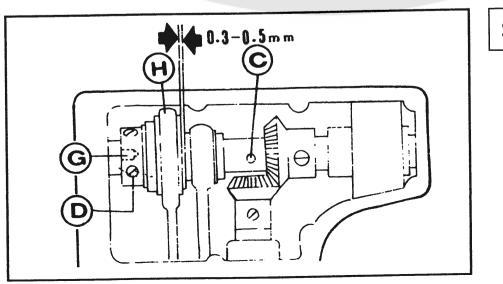
The standard position of feed dog is that the clearance between the front end of the throat plate slot and the first tooth of the fully advanced feed dog is 0.8 m, as shown in Fig. 24.

- 1) Fully advance the feed dog toward the front end of the throat plate slot.
 - 2) Loosen Feed Rocker 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)









16. TIME FEED MOTION TO NEEDLE MOTION

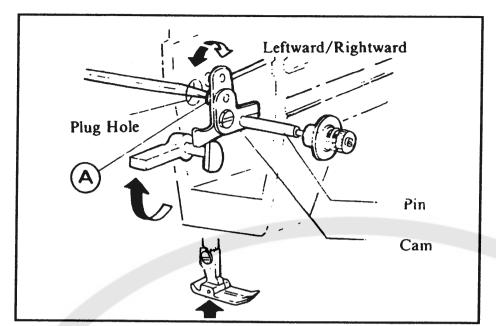
Fig. 24,25,26

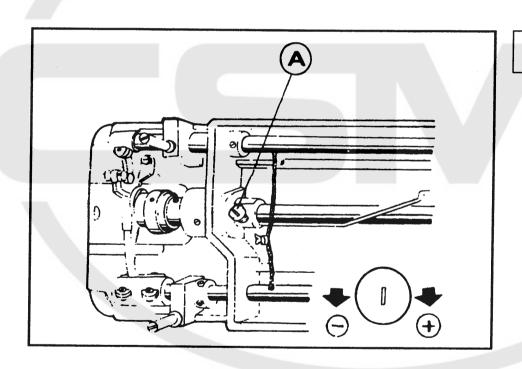
The standard timing of feed motion to needle motion is that the top of Feed Dog (C) is flush with Throat Plate Surface (B) when the point of Needle (A) reaches Throat Plate Surface (B). See Fig. 26

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

- 1) Remove Arm Side Cover (F).
- 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) is with the lower edge of Reference Hole (G) of Feed and feed lifting eccentric.

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





17. ADJUST OPENING TIME OF THE TENSION DISCS

Fig. 27

Within the presser foot lift range of 2-7 mm 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 to the left for earlier opening or to the right 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) and replace rubbor plug.

18. LUBRICATION ADJUSTMENT

Fig. 28

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) anti-clockwise 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 at its maximum.
- 3) Readjustment depends on temperature, sewing speed and the like. In practice, oil amount can be judged as follows: remove the pat plate and place a piece of paper on instead, run the machine about 20 seconds, then check the oil splashed on the paper.



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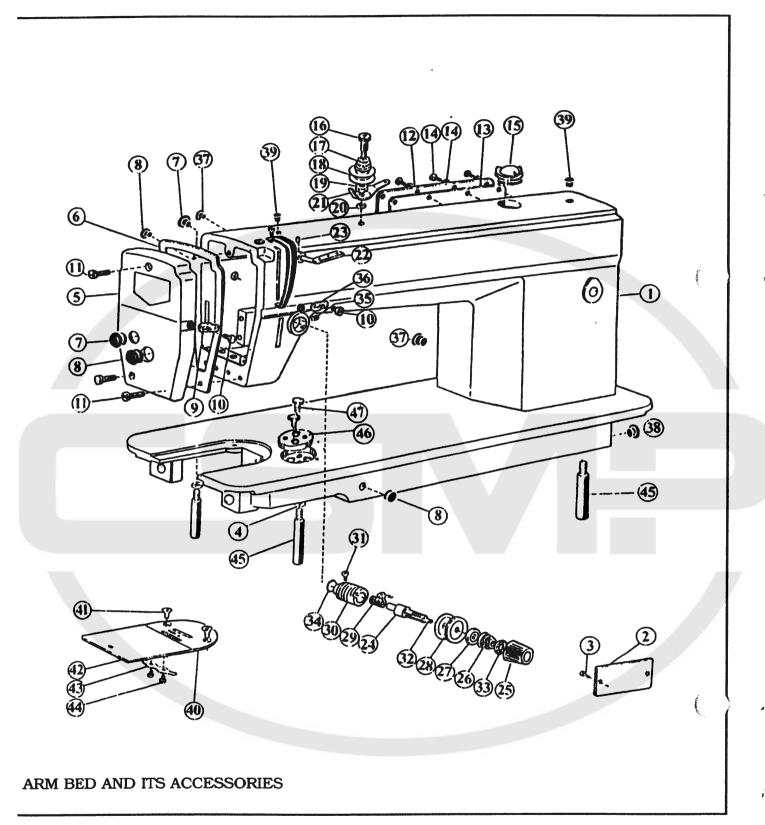
Parts Book

333 D

333 AUT

333 LH

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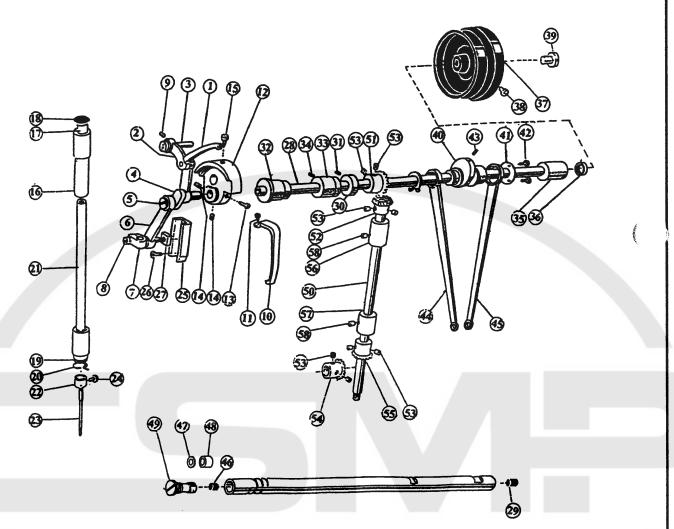


ARM BED AND ITS ACCESSORIES			333 D 333 AUT	333 LH 333 LH AUT
lo.	Ref. nr.	Description		
1	12H1-001A	Arm	1	1
2	12H1-004	Trade mark plate	1	
2	14H1-001	Trade mark plate		1
3	GB827-86	Trade mark plate rivet	2	2
4	GB93-76	Spring washer	2	2
5	12H1-005A1	Face plate	1	1

GL\(\phi\)BAL LOCKSTITCH

No. Ref. nr. Description Gasket for face plate Time T	1. AR	M BED AND ITS ACC	CESSORIES	333 D 333 AUT	333 LH 333 LH AUT
7 72T1-004C3 Rubber plug (Ø19)		•	· · · · · · · · · · · · · · · · · · ·		
Rubber plug (Ø11.8)				1	1
Section Sect				1	1
74T1-004C1		i i		1	1
10 22T1-003C6		1	Thread guide on face plate	1	
11 72T1-016		1	Thread guide on face plate		1
11				1	1
12					
1					
12H1-007C1		1	Gasket for arm side cover	1	1
1		1		8	8
Spring for pre-tension				1	1
Spring for pre-tension				1	1 1
19					1
Space for pre-tension 1				2	2
21 22T1-0109E5 Pre-tension thread guide 1 1 1 1 1 1 1 1 1					
22 22T1-010 Three-hole thread guide 1 1 1 1 1 1 1 1 1				1	1
23 22T1-011 Set screw			Pre-tension thread guide	1	1
Thread tension stud				1	1
Table Tabl		I .		1	1
26 22T1-012F3 Thread tension spring 1 26 83T1-003C2 Thread tension spring 1 27 72T1-007F1 Thread tension disc 1 1 28 72T1-007F5 Thread tension disc 2 2 29 22T1-012F6 Thread take-up spring 1 1 29 83T1-003C1 Thread take-up spring 1 1 30 72T1-007F3 Thread tension regulating bushing 1 1 31 22T1-012F8 Set screw 1 1 32 22T1-012F9 Thread tension regulating bushing 1 1 34 22T1-012F9 Thread tension regulating bushing 1 1 34 22T1-012F9 Thread tension regulating bushing 1 1 35 72T1-012F1 Stop disc 1 1 42 22T1-012F1 Rubber ring 1 1 36 22T1-014 Thread tension at ram center 1 1 72T1-008 Set screw 1 1 1 38 72T1-010 <				1	1
26 83T1-003C2 Thread tension spring 1 27 72T1-007F1 Thread tension disc 1 1 28 72T1-007F5 Thread tension disc 2 2 29 22T1-012F6 Thread take-up spring 1 1 30 72T1-007F3 Thread tension regulating bushing 1 1 31 22T1-012F8 Set screw 1 1 32 22T1-012F9 Thread tension releasing pin 1 1 33 22T1-012F10 Stop disc 1 1 34 22T1-012F11 Rubber ring 1 1 35 72T1-008 Set screw 1 1 36 22T1-014 Thread tension at ram center 1 1 74T1-005 Thread tension at ram center 1 1 1 72T1-009 Rubber plug (Ø 8.8) 2 2 2 38 72T1-010 Rubber plug (Ø 5.7) 1 1 1 40 72T1-011 Needle plate 1 1 40 72T1-019 Needl				1	1
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28 72T1-007F5 Thread tension disc 1 2 2 29 22T1-012F6 Thread take-up spring 1 1 29 83T1-003C1 Thread take-up spring 1 1 30 72T1-007F3 Thread tension regulating bushing 1 1 31 22T1-012F8 Set screw 1 1 32 22T1-012F9 Thread tension releasing pin 1 1 33 22T1-012F10 Stop disc 1 1 34 22T1-012F11 Rubber ring 1 1 35 72T1-008 Set screw 1 1 36 22T1-014 Thread tension at ram center 1 1 74T1-005 Thread tension at ram center 1 1 72T1-009 Rubber plug (Ø 8.8) 2 2 38 72T1-010 Rubber plug (Ø 5.7) 2 2 40 72T1-012 Needle plate 1 40 73T1-003 Needle plate 1 41 72T1-019 Needle plate screw 2					1
29				1	1
29 83T1-003C1 Thread take-up spring 1 30 72T1-007F3 Thread tension regulating bushing 1 31 22T1-012F8 Set screw 1 32 22T1-012F9 Thread tension releasing pin 1 33 22T1-012F10 Stop disc 1 34 22T1-012F11 Rubber ring 1 35 72T1-008 Set screw 1 36 22T1-014 Thread tension at ram center 1 76 74T1-005 Thread tension at ram center 1 72T1-009 Rubber plug (Ø 8.8) 2 72T1-010 Rubber plug (Ø 27) 1 39 72T1-011 Rubber plug (Ø 5.7) 2 40 72T1-012 Needle plate 1 40 73T1-003 Needle plate 1 41 72T1-019 Needle plate screw 2 2 42 22T1-021G1 Slide plate spring 1 1 43 22T1-021G2 Slide plate spring 1 1 44 22T1-021G1 Screw 2			Thread tension disc	2	2
Thread tension regulating bushing 1 1 1 1 1 1 1 1 1				1	
31 22T1-012F8 Set screw 1 1 1 1 1 1 1 1 1					1
32 22T1-012F9 Thread tension releasing pin 1 1 1 1 1 1 1 1 1				1	1
33 22T1-012F10 Stop disc 1 1 1 1 1 1 1 1 1				1	1
33 22T1-012F10 Stop disc 1 1 34 22T1-012F11 Rubber ring 1 1 35 72T1-008 Set screw 1 1 36 22T1-014 Thread tension at ram center 1 1 76 74T1-005 Thread tension at ram center 1 1 72T1-009 Rubber plug (Ø 8.8) 2 2 38 72T1-010 Rubber plug (Ø 27) 1 1 39 72T1-011 Rubber plug (Ø 5.7) 2 2 40 73T1-003 Needle plate 1 1 40 73T1-019 Needle plate screw 2 2 42 22T1-021G1 Slide plate spring 1 1 43 22T1-021G2 Slide plate spring 1 1 44 22T1-021G1 Screw 2 2 45 22T1-022 Leg 3 3 46 72T1-014 Cloth guide plate 1 1			Thread tension releasing pin	1	1
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36 22T1-014 Thread tension at ram center 1 36 74T1-005 Thread tension at ram center 1 72T1-009 Rubber plug (Ø 8.8) 2 38 72T1-010 Rubber plug (Ø 27) 1 39 72T1-011 Rubber plug (Ø 5.7) 2 40 72T1-012 Needle plate 1 40 73T1-003 Needle plate 1 41 72T1-019 Needle plate screw 2 2 42 22T1-021G1 Slide plate spring 1 1 43 22T1-021G2 Slide plate spring 1 1 44 22T1-021G1 Screw 2 2 45 22T1-014 Cloth guide plate 1 1			,	1	1
36 74T1-005 Thread tension at ram center 72T1-009 Rubber plug (Ø 8.8) 2 38 72T1-010 Rubber plug (Ø 27) 1 39 72T1-011 Rubber plug (Ø 5.7) 2 40 72T1-012 Needle plate 1 40 73T1-003 Needle plate 1 41 72T1-019 Needle plate screw 2 2 42 22T1-021G1 Slide plate spring 1 1 43 22T1-021G2 Slide plate spring 1 1 44 22T1-021G1 Screw 2 2 45 22T1-014 Cloth guide plate 3 3 46 72T1-014 Cloth guide plate 1 1				1	1
72T1-009 38 72T1-010 39 72T1-011 Rubber plug (Ø 5.7) 40 72T1-012 Needle plate 40 73T1-003 Needle plate 41 72T1-019 Needle plate screw 42 22T1-021G1 Slide plate * 43 22T1-021G2 Slide plate spring . 44 22T1-021G1 Screw 45 22T1-022 Leg 46 72T1-014 Cloth guide plate 72T1-014 Cloth guide plate 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1				1	
38 72T1-010 Rubber plug (Ø 27) 1 1 39 72T1-011 Rubber plug (Ø 5.7) 2 2 40 72T1-012 Needle plate 1 40 73T1-003 Needle plate 1 41 72T1-019 Needle plate screw 2 2 42 22T1-021G1 Slide plate spring 1 1 43 22T1-021G2 Slide plate spring 1 1 44 22T1-021G1 Screw 2 2 45 22T1-022 Leg 3 3 46 72T1-014 Cloth guide plate 1 1	-10				1
40 72T1-012 Needle plate 1 40 73T1-003 Needle plate 1 41 72T1-019 Needle plate screw 2 2 42 22T1-021G1 Slide plate spring 1 1 43 22T1-021G2 Slide plate spring 1 1 44 22T1-021G1 Screw 2 2 45 22T1-022 Leg 3 3 46 72T1-014 Cloth guide plate 1 1	.0		Rubber plug (Ø 8.8)	2	2
40 72T1-012 Needle plate 1 40 73T1-003 Needle plate 1 41 72T1-019 Needle plate screw 2 2 42 22T1-021G1 Slide plate spring 1 1 43 22T1-021G2 Slide plate spring 1 1 44 22T1-021G1 Screw 2 2 45 22T1-022 Leg 3 3 46 72T1-014 Cloth guide plate 1 1			Rubber plug (Ø 27)		1
40 73T1-003 Needle plate 1 41 72T1-019 Needle plate screw 2 42 22T1-021G1 Slide plate ' 1 43 22T1-021G2 Slide plate spring . 1 44 22T1-021G1 Screw 2 45 22T1-022 Leg 3 46 72T1-014 Cloth guide plate 1 47 72T1-019 Cloth guide plate 1					2
41 72T1-019 Needle plate screw 42 22T1-021G1 Slide plate 43 22T1-021G2 Slide plate spring 44 22T1-021G1 Screw 45 22T1-022 Leg 46 72T1-014 Cloth guide plate 47 72T1-019				1	
42 22T1-021G1 Slide plate 1 1 43 22T1-021G2 Slide plate spring 1 1 44 22T1-021G1 Screw 2 2 45 22T1-022 Leg 3 3 46 72T1-014 Cloth guide plate 1 1					
43 22T1-021G2 Slide plate spring 1 1 1 1 1 1 1 1 1		1		2	
44 22T1-021G1 Screw 2 2 3 3 46 72T1-014 Cloth guide plate 1 1 1 1 2 2 3 3 3 3 3 3 3 3				1	
45 22T1-022 Leg 3 3 46 72T1-014 Cloth guide plate 1 1					
46 72T1-014 Cloth guide plate 1 1				2	2
47 70T1 010		T			
Table 1 Screw 2 2					
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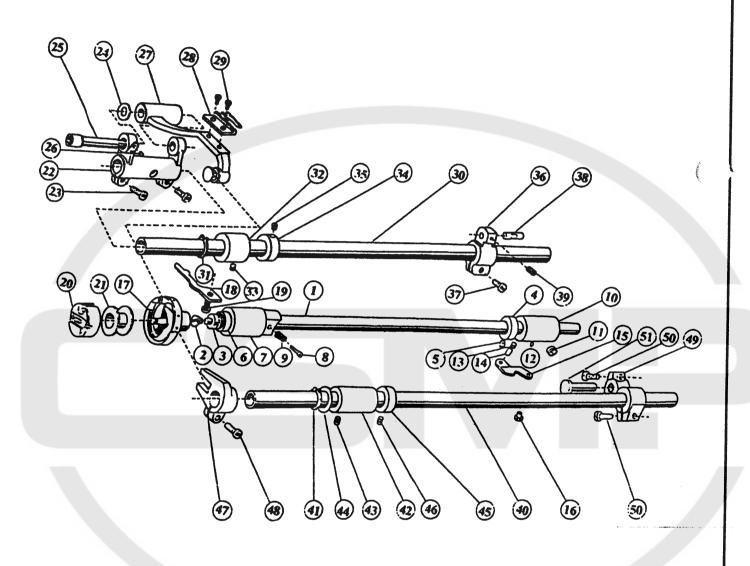


NEEDLE BAR AND THREAD TAKE-UP, ARM SHAFT AND VERTICAL SHAFT MECHANISM

NEE	NEEDLE BAR AND THREAD TAKE-UP, ARM SHAFT AND VERTICAL SHAFT MECHANISM			
ło.	Ref. nr.	Description		, ·
1	22T2-001A1a2	Thread take-up lever	1	· was
1	7412-001A1a2	Thread take-up lever= 11H2 - 001 A1 a 1		1
2	22T2-001A2	Thread take-up lever link	1	
2	11H2-001A1b1	Thread take-up lever link		1
3	22T2-001A3	Hinge pin	1	1
4	72T2-001A2	Thread take-up crank	1.	
4	83T7-001A2a2	Thread take-up crank		1
4	22T2-001A5	Needle bearing	2	2
5	22T2-001A6	Screw (left handed)	1	1
6	72T2-001A7b1	Needle bar link	1	1
7	22T2-001A8	Needle bar adaptor	1	1
8	22T1-003C6	Set screw	1	1
9	22T2-002	Set screw	1	1
10	82T7-003	Thread take-up guard	1	
10	74T2-002	Thread take-up guard		1
11	72T2-003	Set screw	1	1
12	82T2-002B1	Needle bar crank	1	

GL\(\phi\)BAL LOCKSTITCH

2. NEEDLE BAR AND THREAD TAKE-UP, ARM SHAFT AND VERTICAL SHAFT MECHANISM 333 AUT				333 LH 333 LH AUT
No.	Ref. nr.	Description		
12	83T2-002A1	Needle bar crank		1
13	22T2-006	Set screw	1	1
14	72T2-004B2	Set screw	2	2
15	22T2-007	Set screw	1	1
16	22T2-008	Needle bar bushing (upper)	1	1
17	22T2-010	Felt plug	1	1
18	72T2-005	Rubber plug	1	1
19	72T2-006	Needle bar bushing (lower)	1	1
20	72T2-007	Thread guide	1	1
21	72T2-008	Needle bar	1	
21	73T2-002	Needle bar		1
100	22T2-015	Thread guide for needle bar	1	
_2	73T2-003	Thread guide for needle bar		1
23	22T2-016	Needle	1	
23	73T2-004	Needle		1
24	22T2-017	Needle clamp screw	1	ī
25	22T2-018	Guide for slide block	i	ī
26	22T2-019	Set screw	2	2
27	22T2-020	Slide block	1	$\overline{1}$
28	82T2-001A1a1	Arm shaft	1	ı i
29	22T3-001A2	Rubber plug (Ø7.4 x 10)	2	$\hat{2}$
30	22T6-005B1	Collar for arm shaft	1	1
31	22T3-002B2	Set screw	2	2
32	82T1-001A8	Arm bushing (left)	1	1
33	22T3-004	Arm bushing (middle)	î	ī
34	22T2-002	Set screw	î	1
35	72T3-002	Arm bushing (right)	i	1
36	72T3-003B	Oil seal	1	1
37	22T3-007C1	Balance wheel	1	1
38	22 T3-007C2	Set screw	2	2
39	22T3-008	Screw	1	1
40	82T2-003C1a1	Feed and feed lifting eccentric	î	
40	83T2-002B1a1	Feed and feed lifting eccentric		1
41	82T2-003C1a2	Washer	1	i l
12	82T2-003C1a3	Set screw	3	3
	22T2-002	Set screw	$\overset{\circ}{2}$	2
44	22T3-009D1c	Crank rod for feed lifting rock shaft	1	1
45	82T2-003C1a5	Crank rod for feed rock shaft	ī	1
46	82T2-001A3	Felt plug	ì	1
47	82T2-002A2a2	Oil seal	1	i
48	82T2-001A2a3	Rubber seal	1	1
49	82T2-001A2a1	Oil adjusting bar	1	1
50	22T3-010E1	Vertical shaft	1	1
51	22T1-010E2a1-2	Bevel gear for arm shaft	1	1
52	22T3-010E2a2-2	Bevel gear for vertical shaft (upper)	1	ī
53	22T2-005B3	Set screw	8	8
54	22T3-010E2b1-2	Bevel gear for hook shaft	i i	1
55	22T3-010E2b2-2	Bevel gear for vertical shaft (lower)	1	ı l
56	22T3-011	Vertical shaft bushing (upper)	1	1
57	22T3-011	Vertical shaft bushing (lower)	i	
57	74T3-001	Vertical shaft bushing (lower)		1
58	22T2-002	Set screw	2	2

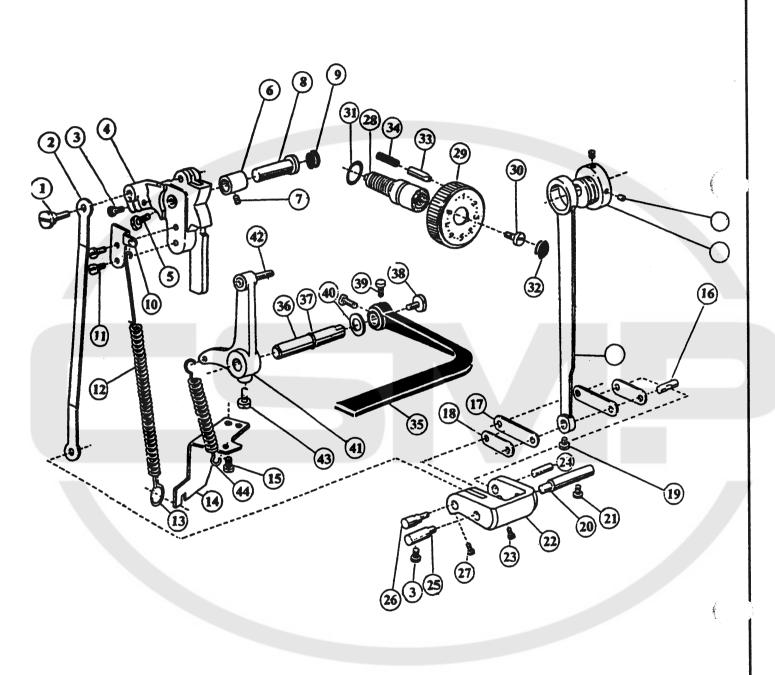


FEEDING AND FEED LIFTING, ROTATING HOOK MECHANISM

FE	FEEDING AND FEED LIFTING, ROTATING HOOK MECHANISM			333 LH 333 LH AUT
lo.	Ref. nr.	Description		
1	82T4-001A1	Rotating hook shaft	1 1	
1	84T4-001A1	Rotating hook shaft	_	1
2	22T4-001A1a1	Filter screw	1	ī
3	22T4-001A1a2	Filter	li	i
4	72T4-002B7	Collar for rotating hook shaft	Î	i
5	72T4-002B2	Set screw	2	2
6	82T4-003	Oil seal for rotating hook shaft	1	1
		<u> </u>		_

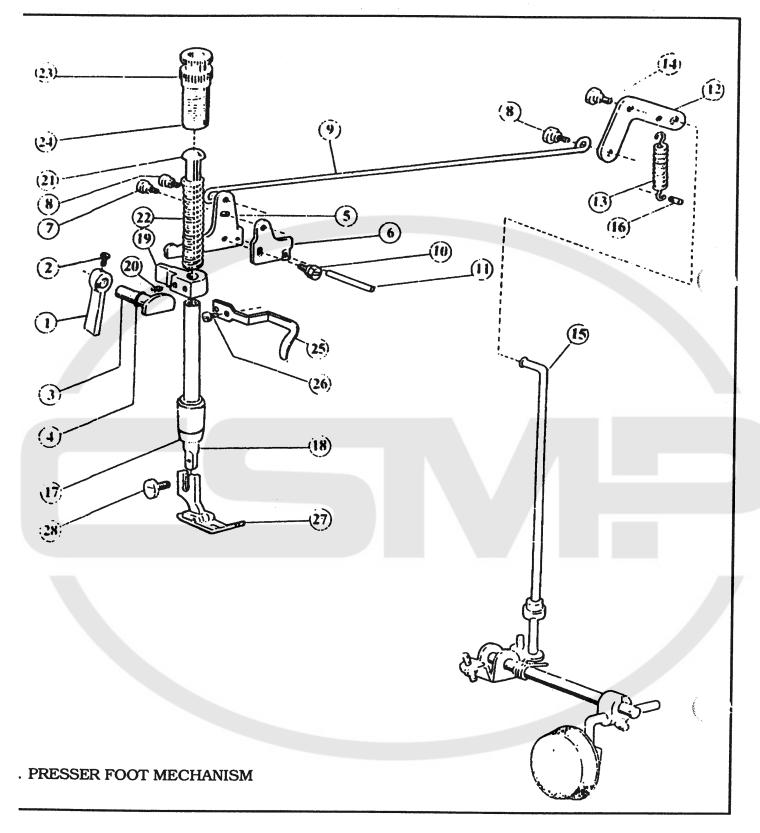
GL\(\phi\)BAL LOCKSTITCH

3. FE	EDING AND FEED L	FTING, ROTATING HOOK MECHANISM	333 D 333 AUT	333 LH 333 LH AUT
No.	Ref. nr.	Description		
7	82T1-001A4	Hook shaft bushing (left)	1	1
8	72T4-003	Oil adjusting screw	1	1
9	22T4-006	Spring for oil adjusting	1	1
10	72T4-008C1	Hook shaft bushing (right)	1	1
11	22T2-002	Set screw	1	1
12	22T4-007C2	Oil pipe for hook shaft bushing	1	1
13	72T4-010	Plunger	1	1
14	72T4-011	Plunger spring	1	1
15	22T4-010	Guide plate	1	
15	84T12-001	Guide plate		1
16	22T5-001A4	Set screw	1	1
	22T4-012E	Rotating hook complete - 22 T4-126/Aut. Rotating hook complete - 1/ H4-002E	1	1 1
- 1	84T4-003B	Rotating hook complete $-1/H_{4} - 202E$		1 1
18	72T4-005	Rotating nook positioner	1	
18	72T4-004	Rotating hook positioner		1
19	22T4-015	Screw	1	1
20	22T4-016F	Bobbin case	1	
20	84T4-003	Bobbin case		1
21	22T4-017	Bobbin	1	
21	74T4-006	Bobbin		1
22	22T6-001A1a	Feed rock shaft crank	1	1
23	22T6-001A1b	Screw	2	2
24	22T6-001A6	Washer	1	1
25	82T9-002A4	Shaft for feed bar (eccentric)	1	1
26	22T2-019	Screw	1	1
27	82T9-002A3a1	Feed bar	1	1
28	22T6-001A3	Feed dog	1	1
29	22T6-001A4	Screw	2	2
30 31	72T6-005 GB894-76	Feed rock shaft	1	1
32	22T6-004	C-type stop ring	1	1
33	72T4-002B2	Feed rock shaft bushing Set screw	1	1
34	22T6-005B1	Collar	1	1
35	22T3-003B1	Screw	1	1
აგ	82T2-003C1a7		2	2
• •	82T2-003C1a7	Feed rock shaft crank (right) Feed rock shaft crank (right)	1	,
37	82T2-002D1a2	Screw	,	1
38	82T2-003C1a0	Feed rock shaft crank pin	1	1
39	82T2-003C1a10-1	Screw	1	1
40	82T10-001A2	Feed lifting rock shaft	1	1
41	GB894-76	C-type stop ring	1 1	1
42	22T6-012	Feed lifting rock shaft bushing	1	1
43	22T2-002	Screw	1	1
44	22T6-013	Washer	1	1
45	22T6-005B1	Collar for lifting rock shaft	1	1
46	22T3-005B2	Screw	2	1 2
47	82T10-001A1a1	Feed lifting rock shaft crank (left)	1	1
48	22T6-008D3	Screw	1	1
49	82T10-002B1	Feed lifting rock shaft crank (right)	1	1
49	72T6-003C1	Feed lifting rock shaft crank (right)	1	1
50	22T6-001A1b1	Set screw	2	2
51	22T6-007	Hinge pin	1	1
1	·	• •		•

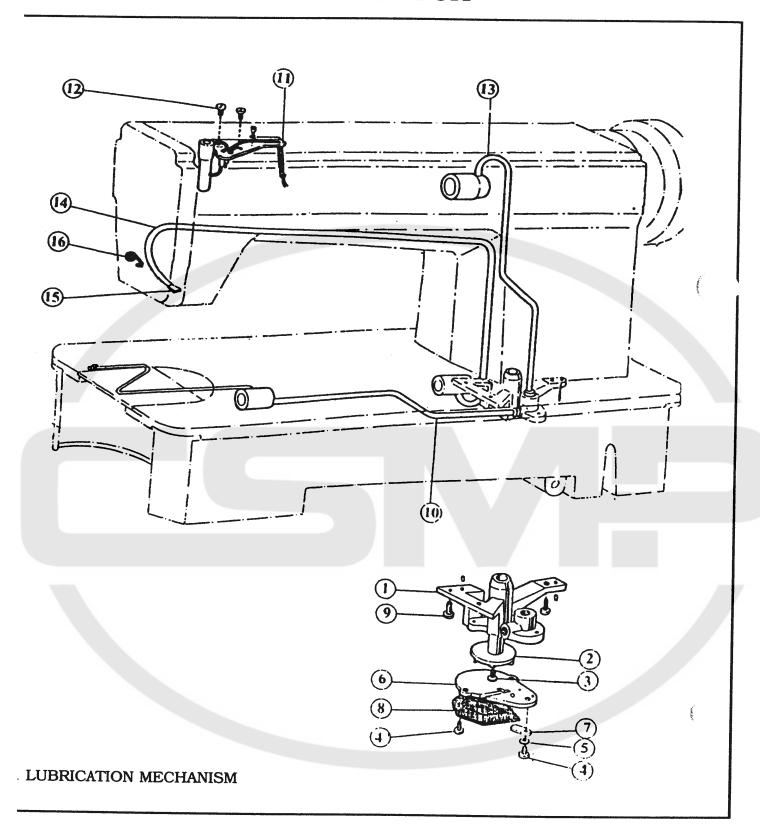


. STITCH LENGHT REGULATING MECHANISM

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4. STI	TCH LENGHT REGU	LATING MECHANISM	333 D 333 AUT	333 LH 333 LH AUT
No.	Ref. nr.	Description		
1	82T2-006	Connecting rod stud	1	1
2	82T2-003C1a4	Feed connecting link	ĺ	1
3	22T6-008D3	Screw	1	l i
3	22T6-008D3	Screw	i	l î l
4	12H4-001A1	Feed regulator	i	
4	13H4-001A1	Feed regulator	_	1
5	22T5-010D4	Screw	1	ı î
6	82T1-001A5	Feed regulator bushing	1	l i l
7	22T2-002	Screw	1	ī
8	22T2-004	Hinge pin for feed regulator	1	l i l
9	72T5-003	Rubber plug (Ø 20 x 4)	1	l i l
<i>(</i>	12H4-002	Spring retainer	1	1
	22T2-019	Screw	2	2
12	12114-005	Coil spring - 83 7 7 - 603 C 4	1	1
13	83T2-003C5	Spring retainer	1	1
14	83T5-001	Spring holder	1	1
15	22T5-001A4	Screw	1	1
16	82T2-003C1a10-2	Link stud	1	1
17	82T2-003C1a9-2	Link (long)	2	
17	83T2-002B1a3	Link (long)		2
18	82T2-003C1a9-1	Link (short)	2	2
19	82T2-003C1a8	Set screw	1	1
20	82T2-004	Feed regulator shaft (right)	1	1
21	22T6-008D3	Set screw	1	1
22	82T2-003C1a15	Stitch length adjusting crank	1	1
23	82T2-003C1a12	Set screw	1	1
24	82T2-003C1a13	Link stud	1	1
25	82T2-005	Feed regulator shaft (left)	1	1
26	82T2-003C1a14	Link stud	1	1
27	82T2-003C1a11	Screw	1	1
28	22T 5-006C1	Feed regulator screw bar	1	1
29	72T5-004B1	Dial	1	
29	73T5-003C2	Dial		1
30	22T5-006C3	Screw	1	1
ာ1	22T5-006C4	O-ring	1	1
	72T5-005	Rubber plug	1	1
33	22T5-008	Stopper pin	1	1
34	22T5-009	Spring for stopper pin	1	1
35	72T5-006C1	Reverse feed lever	1	1
36	22T5-010D2a	Reverse feed lever pin	1	1
37	22T5-010D2b	O-ring	1	1
38	22T5-010D3	Screw	1	1
39	22T5-001A4	Screw	2	2
40	22T5-011	Washer	1	1
41 42	12H4-003B1	Reverse feed lever crank	1	1
42	22H3-004C1 22T5-013	Reverse feed lever crank pin Screw	1	1
44	12H4-004		1	1
77	12117:004	Spring for feed regulator crank = 2275-012 E2	1	1
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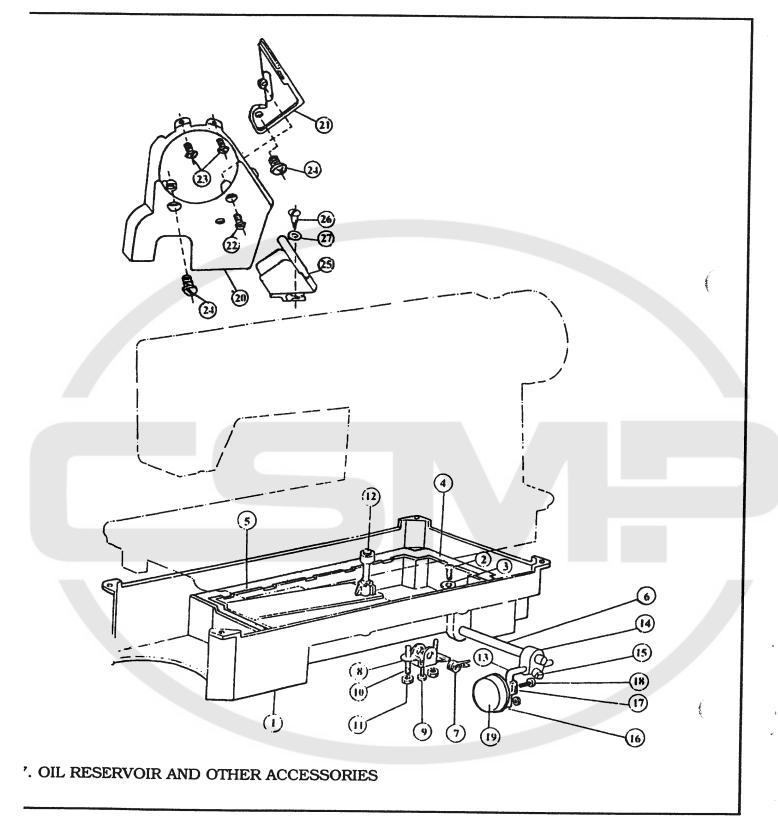
5. PRE	ESSER FOOT MECHA	NISM	333 D 333 AUT	333 LH 333 LH AUT
No.	Ref. nr.	Description		
1	12H5-001A1	Presser bar lifter	1	1
2	72T1-017	Set screw	1	1
3	12H5-002B1	Presser bar lifting cam	1	
3	13H5-001A1	Presser bar lifting cam		1
4	72T7-008	Oil seal for presser bar lifting	1	1
5	22T7-004Bla	Knee lifter lever (left)	1	1
6	72T7-002B1-1	Tension releasing cam	1	1
7	22T7-004B1c	Screw	1	1
8	22T7-004B2	Screw	2	2
9	22T7-004B3	Knee lifter rod	1	1
10	22T7-005	Screw	1	1
i e	22T7-006	Tension releasing pin	1	1
\$ 	22T7-007C1	Knee lifter lever (right)	1	1
13	22T7-007C2	Spring for knee lifter lever	1	1
14	22T7-005	Screw	1	1
15	72T7-003C1	Knee lifter connecting rod	1	1
16	22T7-008	Pin for spring	1	1
17	72T7-009	Presser bar bushing	1	1
18	72T7-011	Presser bar	1	1
19	72T8-004C1	Presser bar lifting bracket	1	1
20	72T3-005D1a	Screw	1	1
21	22T7-012	Presser bar guide	1	1
22	22T7-013	Presser bar spring	1	1
23	22T7-014E2	Lock nut	1	1
24	72T7-006D1	Pressure regulating thumb screw	1	1
25	72T7-012	Upper thread guide	1	1
26	22T7-004	Screw	1	1
27	72T7-007E	Presser food complete	1	
27	11H7-001A	Presser food complete		1
28	22T7-015	Screw	1	1
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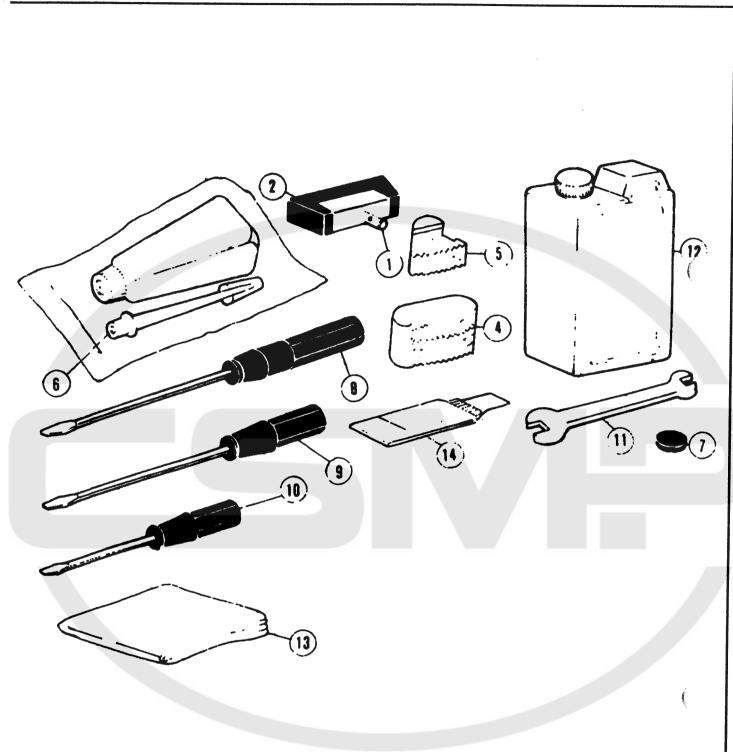
GL BAL LOCKSTITCH

6. 111	BRICATION MECHAN	ISM	333 D	333 LH
			333 AUT	333 LH AUT
No. 1	Ref. nr. 22T8-001	Description Oil pump body	1	1
2	22T8-001	Oil pump impeller	1	1
3	22T8-003	Screw	ı	l î
4	72T8-005	Screw	3	3
5	22T8-005	Spring washer	1	1
6	22T8-006	Oil pump fitting plate	1	1
7	22T8-007	Oil adjusing plate	1	1
8 9	22T8-008A 22T8-009	Oil pump screen complete Screw	1 3	1 3
10	22T8-010B	Oil pipe for hook shaft	1	1
11	72T8-001A	Oil braid fitting plate	1	l i
į.	22T8-011C4	Screw	2	2
٠.٠	22T8-013B	Oil pipe for arm shaft	2 1	1
14	72T8-002B1	Oil return pipe	1	1
15	22T8-015	Felt pouch	1	1
16	72T8-006	Piper holder	1	1
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38 GL\BAL LOCKSTITCH

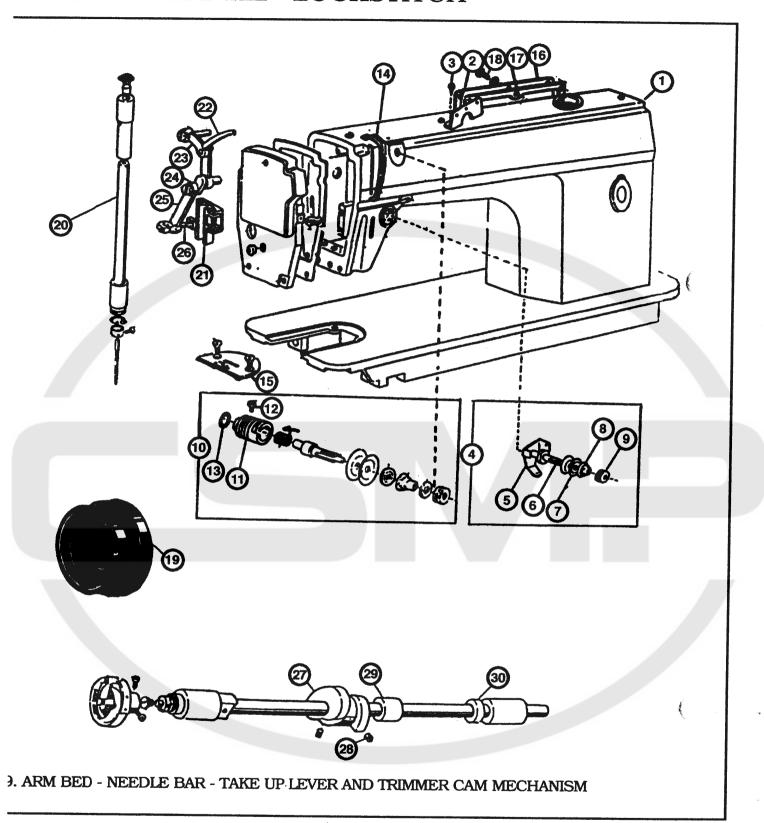


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7. OII	RESERVOIR AND O	THER ACCESSORIES	333 D 333 AUT	333 LH 333 LH AUT
No.	Ref. nr.	Description		
1	72T9-001A1	Oil reservoir	1	1
2	22T9-001A2	Oil drain screw	1	1
3	22T9-001A3	Washer	1	1
4	22T9-001A4	Gasket for oil reservoir (small)	1	1
5 6	22T9-001A5	Gasket for oil reservoir (big)	1	1 1
7	72T9-016 22T9-001A7	Hinge pin for knee lifter		1
8	22T9-001A7	Backspring for knee lifter Knee lifter stop bracket	1	1 1
9	22T3-00TA8	Screw	1 1	1 1
10	22T9-001A9	Adjusting screw	2	2
11	22T9-001A10	Lock nut	2	$\begin{bmatrix} 2 \\ 2 \end{bmatrix}$
,	22T9-003B1	Knee lifting lifter rod	1	1
120	22T9-003B2	Knee lifter bell crank	î	1
14	22T9-003B3	Joint for knee lifter bell crank	î	î
15	72T9-018	Screw	2	2
16	22T9-003B5	Knee lifter plate	1	1
17	22T 9-003B6	Bracket for knee lifter plate	1	1
18	22T9-003B7	Screw	1	1
19	22T9-003B8	Pad for knee lifter plate	1	1
20	72T9-002B1	Belt guard	1	1
21	72T9-002B2a	Belt guard	1	1
22	72T9-025	Set screw	1	1
23	72T1-017	Screw	2	2
24 25	72T9-028	Screw Belt Guard	2	2
26	72T9-002B3 GB99-76	Screw	1	1
27	72T9-023	Washer	2 2	$\begin{array}{c c} 2 \\ 2 \end{array}$
21	7219-025	Washer	2	2
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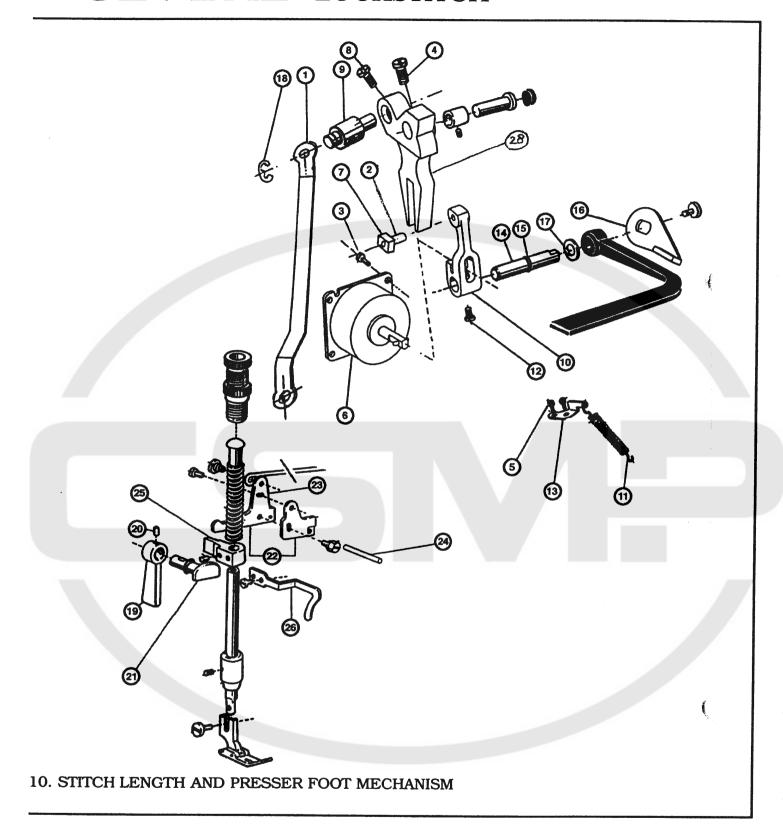
3. OTHER ACCESSORIES

			T	T 200 1 17
8. OT	HER ACCESSORIES		333 D 333 AUT	333 LH AUT
No. 1 2 4 5 6 7 8 9 10 11 12 14	Ref. nr. 22T9-007F1 72T9-004C1 72T9-005 72T9-006 22T9-011 22T9-012 72T9-007 72T9-020 72T9-021 72T9-022 22T9-017 72T9-017 73T9-004 82T18-003C 84T18-002B	Description Hinge of machine head Rubber socket for hinge Rubber cushion (big) Rubber cushion (small) Oiler Magnet Screw driver (long) Screw driver (medium) Screw driver (short) Double-end wrench Oil container Vinyl cover Needle Bobbin winder Bobbin winder	2 2 2 2 1 1 1 1 1 4	2 2 2 1 1 1 1 1 1 4



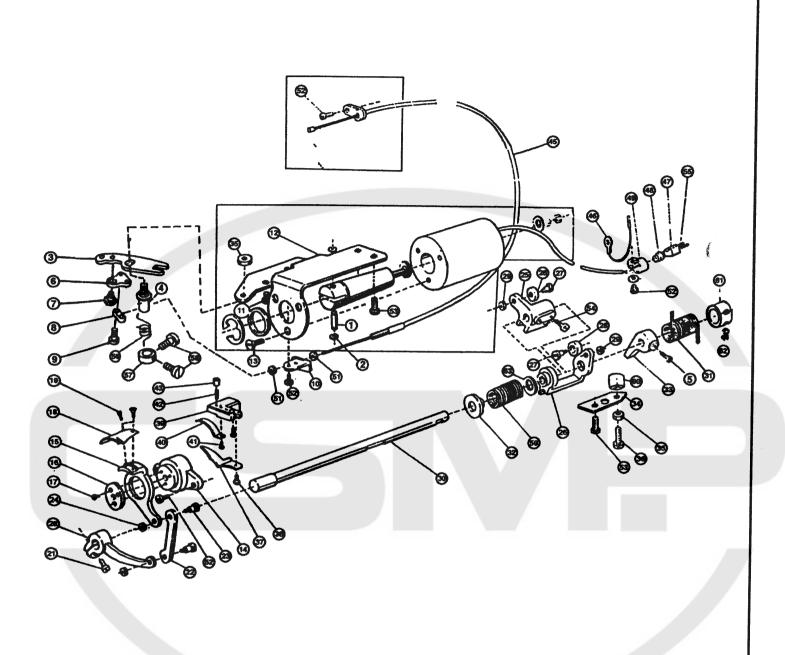
GL BAL LOCKSTITCH

9. ARI	M BED - NEEDLE BAR	- TAKE UP LEVER AND TRIMMER CAM MECHANISM	333 AUT	333 LH AU
No.	Ref. nr.	Description		
1	26H1-001A	Arm	1	
	28H1-001A1-2	Arm	İ	1
2	82T1-005	Three-hole thread guide	1	1
3	82T1-006	Ser screw	1	- 1
4	82T1-007C	Pre-tension thread complete	1.	1
5	82T1-007C4	Pre-tension thread guide	1	1
6	82T1-007C3	Screw type tension stud	1	1
7	22T1-009E3	Disk for pre-tension	2	2
8	82T1-007C2	Spring for pre-tension	1	1
9	82T1-007C1	Nut for pre-tension	1	1
10	82T1-008D	Thread tension complete	1	1
\$	82T1-008D2	Thread tension regulation bushing	1	1
12	82T1-008D1	Set screw	1	1
13	82T1-008D3	Oil seal	1	1
14	82T7-003	Thread take-up cover	1	
	74T2-002	Thread take-up cover		1
15	82T1-010	Needle plate	1	
16	12H1-006B1	Arm side cover	1	1
17	12H1-006B2	Gasket for arm side cover	1	1
18	72T1-017	Set screw	8	8
19	82T17-000	Balance wheel with synchroadaptor	1	1
20	82T6-002B	Needle bar	1	1
21	82T6-001A	Guide for slide block complete	1	1
22	22T2-001A1a1	Thread take-up lever	1	
	11H2-001A1a1	Thread take-up lever = 8277-061A1 22		1
23	22T2-001A2	Thread take-up lever link	1	
	11H2-001A1b1	Thread take-up lever link		1
24	82T7-001A1a2	Thread take-up crank	1	
\	83T7-001A1a2	Thread take-up crank		1
25	22T2-001A7b	Needle bar link	1	
	72T2-001A3	Needle bar link		1
26	22T2-001A8	Needle bar adaptor	1	1
27	82T4-007E1	Thread trimmer cam	1	1
28	82T4-007E2	Set screw	2	2
ာ	82T13-012G1	Collar	1	1
1	72T4-002B1	Collar for rotating hook shaft	1	1
31	8274-004C	Hook	,	
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GL BAL LOCKSTITCH

10. ST	TITCH LENGTH AND	PRESSER FOOT MECHANISM	333 AUT	333 LH AUT
10. ST No. 1 2 3 4 5 6 7 8 9 10 11 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28	Ref. nr. 26H4-008 22T5-012E1a1 72T1-017 22T5-010D4 82T2-003C1816 26H4=010 22T5-012E1a2 72T2-003 12H4-001A2 26H4-002B1 82T2-003C1a18 22T3-007C2 82T2-003C1a17 26H4-009 22T5-011 GB896-86 82T8-001A2 22T1-001 82T8-002B1 82T8-003C 82T8-003C1a1 82T8-003C 82T8-003C1a1 82T8-003C 82T8-003C1a1 82T8-007 82T8-008E1 82T8-009 72T2-003 26H4-001A1 27 #4-001A1	Description Connecting rod stud Reverse feed crank lever Set screw Set screw Reverse feed electromagnet = 22 H\$ - 605 (3) Reverse feed shaft crank slide block Set screw Stitch length adjusting swing shaft Reverse feed lever crank Spring for stitch length adjusting crank Set screw Spring holder Reverse feed lever pin O-ring Reverse feed lever spanner Washer E-type ring (d=5) Presser bar lifter Set screw Presser bar lifting cam Knee lifter lever (left) Tension releasing pin Presser bar lifting bracket Upper thread guide Set screw FEED REGULATOR FEED REGULATOR	1 1 4 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1 1 4 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1

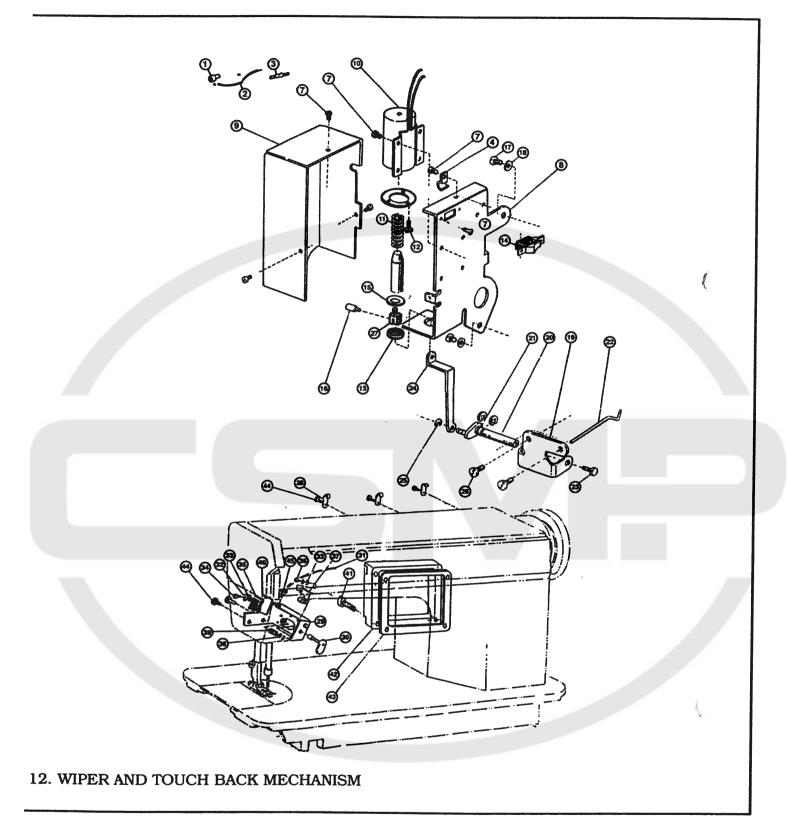


11. KNIFE ACTUATING MECHANISM

11. KN			333 D 333 AUT	333 LH 333 LH AUT
No.	Ref. nr.	Description		
1	82T13-009E2	Link stud	1	1
2	GB896-76	Retaining ring (E-type ring 4)	2	2
3	82T13-009E8	Thread trimmer driving lever	$\frac{1}{1}$	1
4	82T13-009E5	Stud screw	1	i
5	22T5-010D4	Set screw	1	1
6	82T13-009E10	Flexible wire bracket	1 1	1
7	82T13-009E9	Set screw	1 1	i
8	82T13-009E11	Link bracket	li	Î
9	82T13-009E12	Set screw	2	2

11. K	NIFE ACTUATING MI	ECHANISM (LH)	333 AUT	333 LH AU
No.	1	Description		
10	82T13-009E13	Holder	1	1
11	22T4-015	Set screw	1	1
12	82T13-009E1a2	Solenoid bracket	1	1
13	82T13	P-type screw	3	3
14	82T13-001A1a1-1	Knife holding bracket saddle	1	1
15	82T13-001A1a1-2	Knife holding bracket saddle (left) 84713 -cciAtAt	1 1	
16	82T13-001A1a1-3	Washer	1	1
17	82T13-001Alal-4	Set screw	3	3
18	82T13-001A1a8	Movable knife (left)	1	
19	82T13-001A1a7	Set screw	2	2
20	82T13-001A1a6	Knife driving cranck	1	1
1	82T1-016F11	Set screw	1	1
22	82T13-001A1a4	Link	1	1
23	82T13-001A1a2	Set screw	2	2
24	82T13-001A1a3	Nut	2	2
25	82T13-003B1a1	Cam follower cranck 1	1	1
26	82T13-003B1a2	Cam follower cranck 2	1	1
27	82T13-003B2a2	Roller stud	2	2
28	82T13-003B2a1	Roller	2	2
29	82T13-003B3	Nut	2	2
30	82T13-002	Knife driving shaft	1	1
31	82T13-011	Coil spring	1	1
32	82T13-005	Bushing	1	ī
33	82T13-006C1	Stopper lever	1	1
34	82T13-007D2	Lever stopper plate	1	ī
35	82T13-007D3	Nut	2	2
36	82T13-007D1a1	Set screw		$\overline{1}$
37	82T13-001A2a4	Thread finger 84713-av 12.22	1	
38	82T2-003C1a16	Set screw	3	3
39	82T13-001A2-a1	Bracket for fixed blade		1
40	82T13-001A2-a2	Fixed blade 84713.001A2A1	1	
41	82T13-001A2-a3	Set screw	1	1
42	82T13-001A2-a6	Set screw	1	1
43	82T13-001A2-a7	Nut	1	1
4=	82T13-010F2	Flexible wire	1	1
	82T16-002A	Grounded wire	1	1
47	82T16-001	Connector plug	1	1
48	82T14-001A7	Gasket	1	1
49	82T15-0015B8	Cord holder HP-3N	1	1
51	GB52-76	Nut M5	2	2
52	72T1-017	Set screw	5	5
53	82T13-008	Set screw	4	4
54	22T5-010D4	Set screw	2	2
55	82T1-016F4a3	Adaptor	2	2
56	82T13-009E7	Spring for thread trimmer driving lever	1	1
57 50	82T13-009E6	Collar for thread trimmer driving lever	1	1
58	82T2-003Clall	Set screw	2	2
59	82T13-004	Coil spring	1	1
60	82T13-007D1a2	Dead block	1	1
61	82T13-012G1	Collar with screw	1	1
62	22T13-002B2	Set screw	2	2
63	82T13-003B4	Washer	1	1
	<u> </u>			

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No. Ref. nr. Description 1 82T15-005b10 Connecting for thread wiper solenoid 1 1
1 S2115-005b1a Wire for traced wiper solenoid 1 1 1 1 3 3 3 3 3 3

NOTE

after installing always check

- BETRIEBSANLEITUNG
- INSTRUCTIONS
- MODE D'EMPLOI
- ISTRUZIONI D'USO
- INSTRUCCIONES DE SERVICIO
- ΟΔΗΓΙΕΣ
- BRUGSVEJLEDNING
- INSTRUKSJONER
- INSTRUKTIONER
- INSTRUÇÕES
- GEBRUIKSAANWIJZING
- TURVALLISUUSMÄÄRÄYKSET