

M700 *Series Technical Manual*



CONTENTS

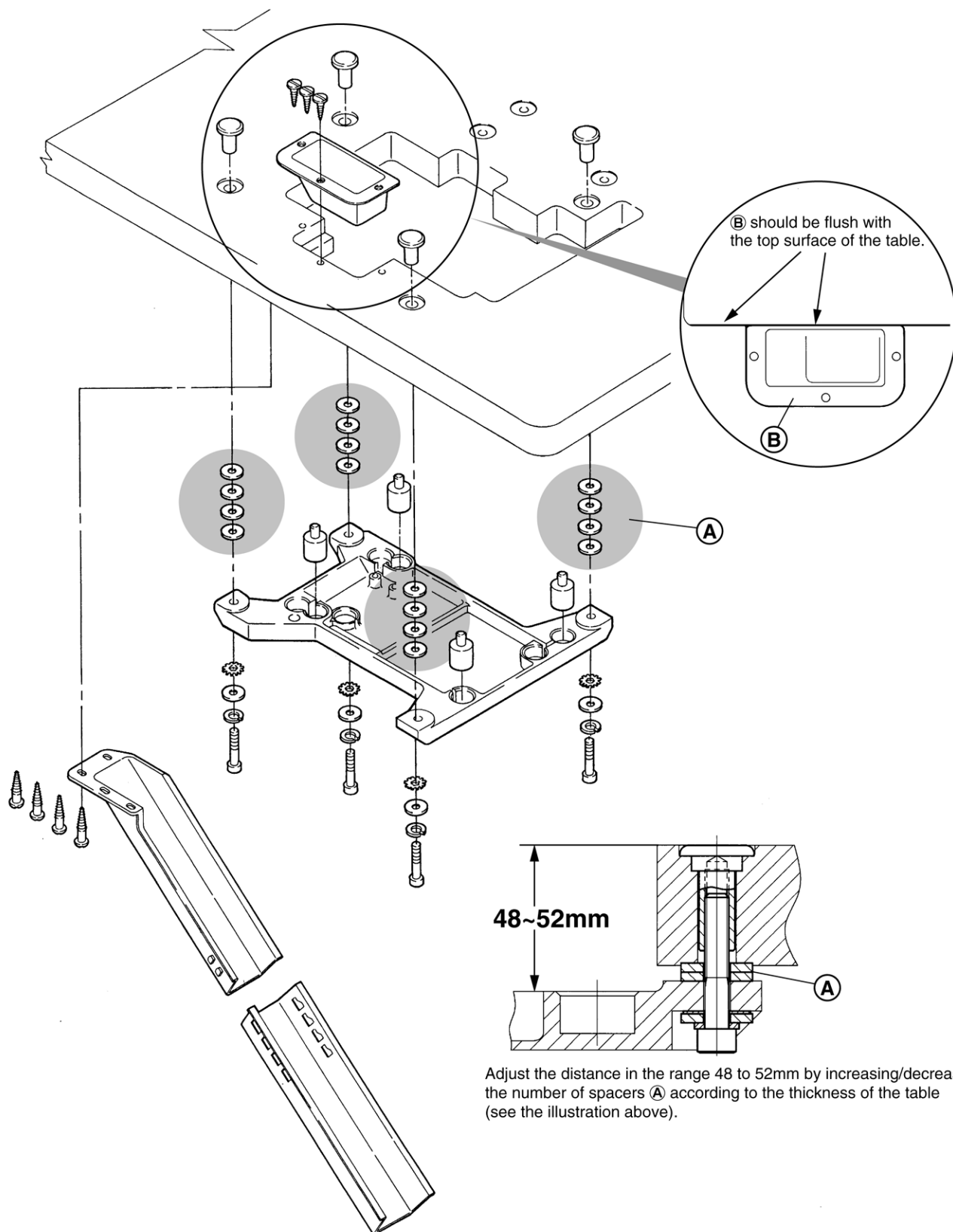
SCHEMATIC DIAGRAM		REPLACING THE FEED DOGS	13
Semi-submerged mounting	1	FEED DOG HEIGHT	13
INSTALLATION CHART OF THE TABLE MOUNTING		TILT ADJUSTMENT	13
Semi-submerged table	2	AUXILIARY FEED DOG HEIGHT	13
MOTOR PULLEY AND BELT	3	NEEDLE HEIGHT	14
INSTALLING THE MACHINE HEAD	4	ADJUSTING THE LOWER LOOPER	
TURNING DIRECTION OF THE MACHINE PULLEY	4	1. To install the lower looper	14
HOOKING THE CHAIN FOR THE PRESSER FOOT LIFT TREADLE	4	2. Lower looper setting distance	14
LUBRICATION	5	3. Lower looper front-to-back adjustment	14
SILICONE OIL for H.R. DEVICE	6	ADJUSTING THE UPPER LOOPER	15
OIL REPLACEMENT	6	ADJUSTING THE DOUBLE CHAINSTITCH LOOPER (M732 SERIES)	
TO DRAIN OIL	6	1. To position the double chainstitch looper	15
REPLACING THE NEEDLE	7	2. Looper-needle setting distance of the double chainstitch looper . . .	15
ADJUSTING THE THREAD TENSION	7	3. Front to back position of the double chainstitch looper in relation to the needle	15
OPENING/CLOSING THE PRESSER ARM	8	ADJUSTING THE NEEDLE GUARD	
ADJUSTING PRESSER FOOT PRESSURE	8	M732 Series	
ADJUSTING STITCH LENGTH	8	1. Adjusting the overlock needle guards	16
ADJUSTING THE DIFFERENTIAL FEED RATIO	9	2. Adjusting the double chainstitch needle guards	16
ADJUSTABLE RANGE OF THE DIFFERENTIAL FEED		ADJUSTING THE NEEDLE GUARD	
ADJUSTING LEVER	9	M752 Series	
STANDARD POSITION OF THE THREAD		Adjusting the overlock needle guards	17
GUIDES & THREAD SUPPLY AMOUNT	10	INSTALLING THE PRESSER FOOT	18
STANDARD POSITION OF THE LOOPER THREAD TAKE-UPS AND		ADJUSTING THE PRESSER ARM LEFT TO RIGHT	18
THREAD GUIDES & LOOPER THREAD SUPPLY AMOUNT	11	ADJUSTING THE PRESSER FOOT LIFT LEVER	18
REPLACING THE UPPER KNIFE	12	ADJUSTING THE PRESSER FOOT LIFT (M732 Series • M752 Series) ·	19
REPLACING THE LOWER KNIFE	12	ADJUSTING THE PRESSER FOOT STOPPER (M732 Series • M752 Series) ·	19
ADJUSTING OVEREDGE WIDTH	12	ADJUSTMENT DIMENSIONS	20
KNIVES	12		

Semi-submerged mounting



INSTALLATION CHART OF THE TABLE MOUNTING

Semi-submerged table



MOTOR PULLEY AND BELT

1.Belt: M type V belt

2.Select the proper motor pulley by referring to Table 1.

Table 1 Motor pulley diameter and machine speed

(Machine pulley diameter is 55mm)

Motor pulley diameter (mm)	Machine speed (rpm)		Motor pulley diameter (mm)	Machine speed (rpm)	
	60Hz	50Hz		60Hz	50Hz
30	1,880	1,570	100	6,270	5,240
35	2,195	1,830	105	6,590	5,500
40	2,510	2,100	110	6,900	5,760
45	2,820	2,360	115	7,210	6,020
50	3,140	2,620	120	7,530	6,280
55	3,450	2,880	125	7,840	6,545
60	3,760	3,140	130	8,155	6,810
65	4,080	3,400	135	8,470	7,070
70	4,390	3,665	140	8,780	7,330
75	4,705	3,930	145	9,095	7,590
80	5,020	4,190	150	9,410	7,850
85	5,330	4,450	155	9,720	8,120
90	5,645	4,710	160	10,040	8,930
95	5,960	4,970			

INSTALLING THE MACHINE HEAD

1. Mount the machine head on the machine table board and place the belt on the machine pulley. Then place the belt on the motor pulley.
Adjust the belt tension.
2. Adjust the belt tension so that approximately 2cm deflection can be obtained when the middle point of the belt is pressed.
3. Install belt cover ① with screws ②.

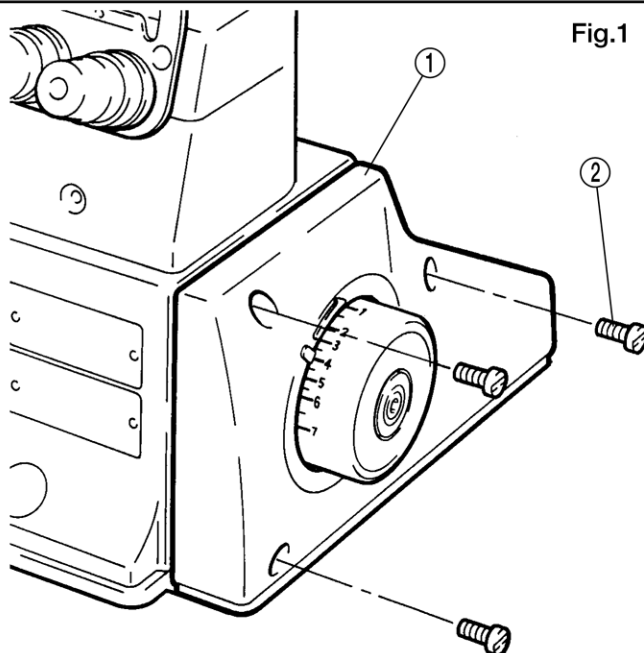


Fig.1

TURNING DIRECTION OF THE MACHINE PULLEY

The machine pulley (handwheel) rotates clockwise as seen from the handwheel end of the machine.

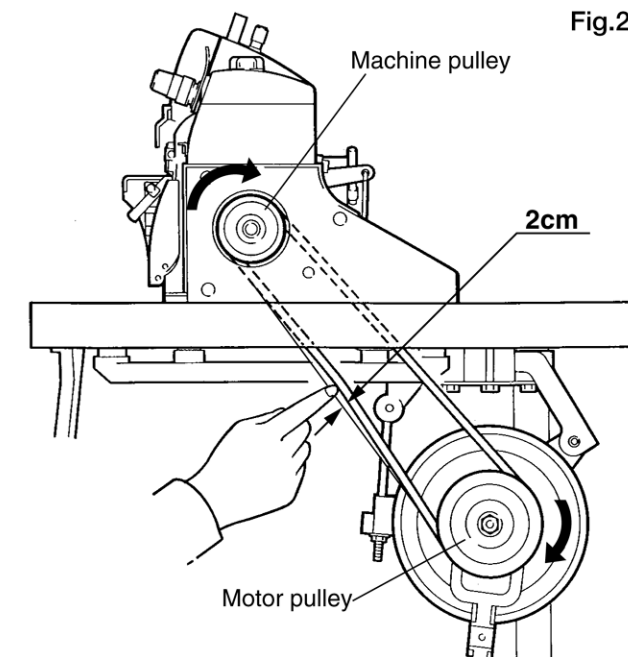


Fig.2

HOOKING THE CHAIN FOR THE PRESSER FOOT LIFT TREADLE.

Connect presser foot lever ③ and treadle ④ by using chain ⑤. Adjust the length of chain ⑤ so that treadle ④ can be easily pressed.

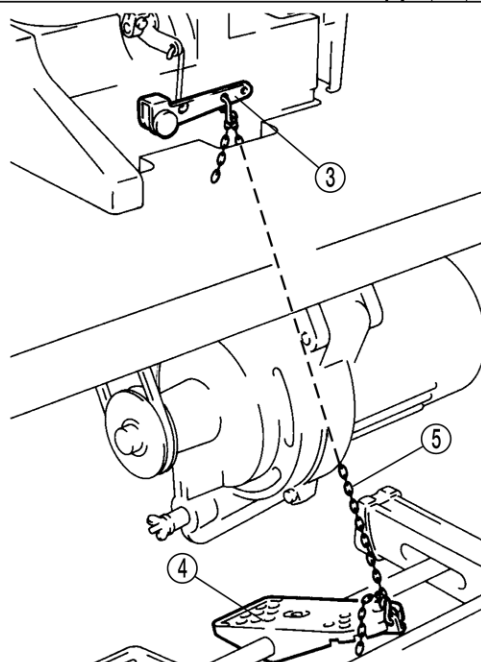


Fig.3

LUBRICATION

1. Oil

Mobil Velocite Oil No. 10
(ISO Viscosity Grade 22)

2. To fill the machine with oil

Remove cap ①.

Add the oil until the oil level (see oil gauge ②) reaches (H).

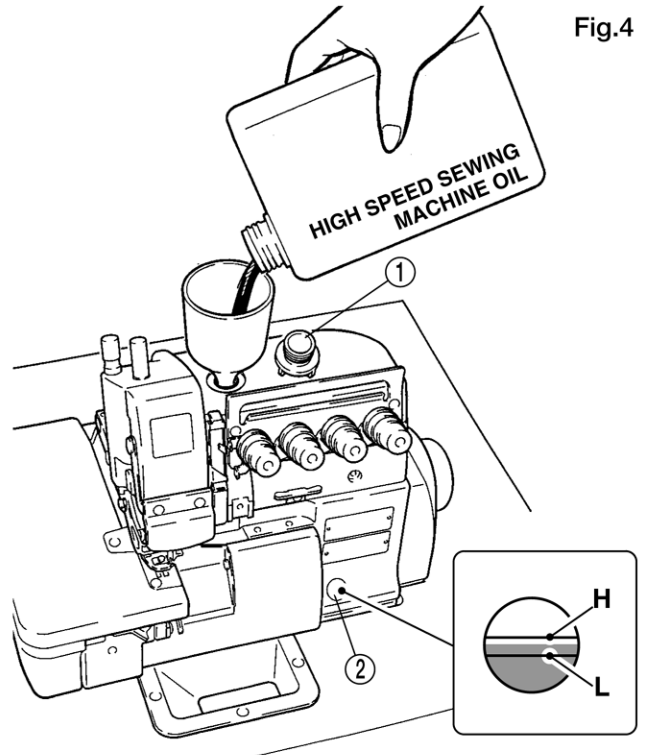
After filling the tank with oil, replace cap ①.

3. Required amount of oil

(H) on oil gauge ②: Upper limit

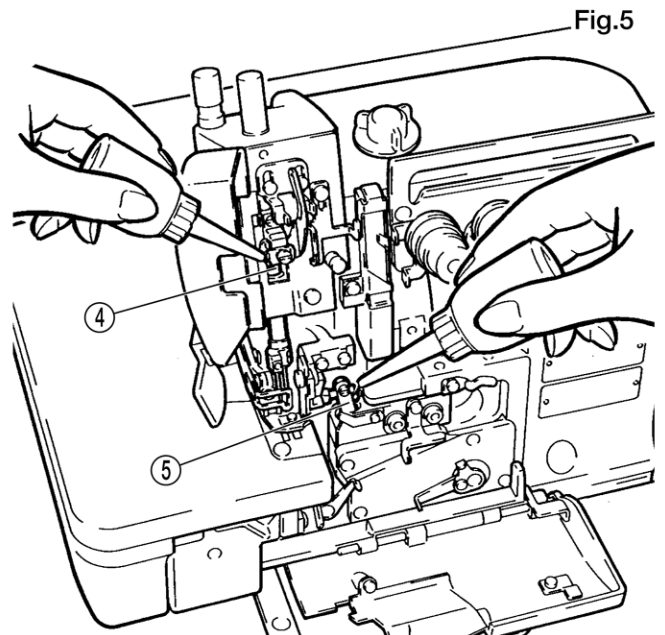
(L) on oil gauge ②: Lower limit

The oil level should always lie between (H) and (L).



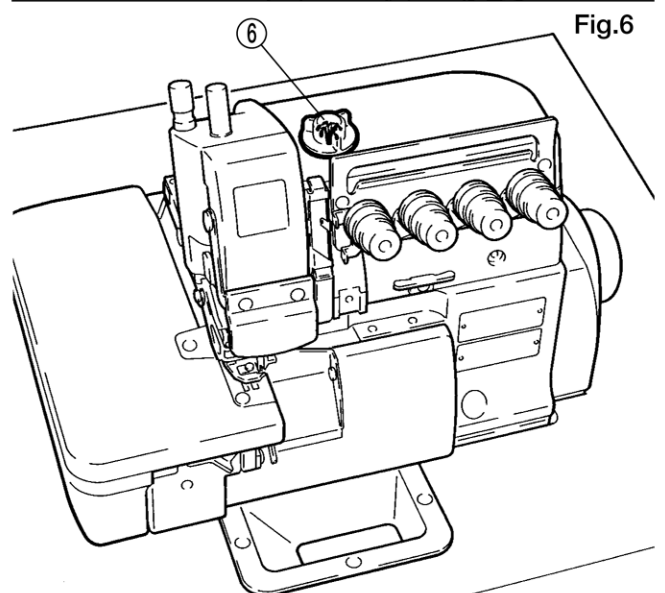
4. Manual lubrication

Apply 2 or 3 drops of oil by hand to needle bar ④ and upper looper holder ⑤ when the machine is used for the first time or has been left unused for some time.



5. Checking oil circulation

Once the machine has been properly filled with oil, press the machine treadle to run the machine and check oil gauge window ⑥ to see if the oil is flowing.



SILICONE OIL for H.R. DEVICE

Fill silicone oil tanks ①, ② with silicone oil.

To prevent thread breakage or fabric damage, add the silicone oil before it is too low.

Note :

Use Pegasus recommended silicone oil.

[UNION CARBIDE CORPORATION UCC L-45(350)]

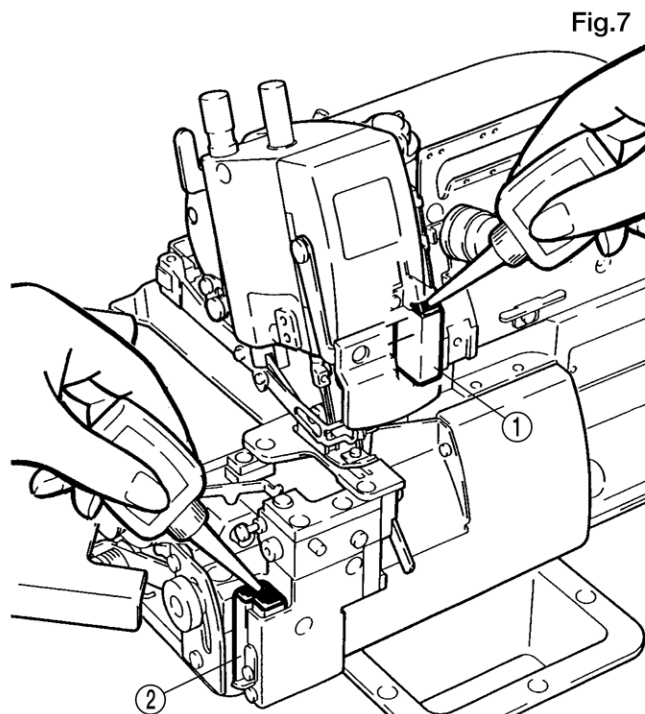


Fig.7

OIL REPLACEMENT

Replace the oil one month after the first use and thereafter every six months.

If you keep using the old oil, shortening machine life.

TO DRAIN THE OIL

1.Drain the oil by removing screw ③ on the left side of the oil pan.

2.Tighten screw ③ after draining.

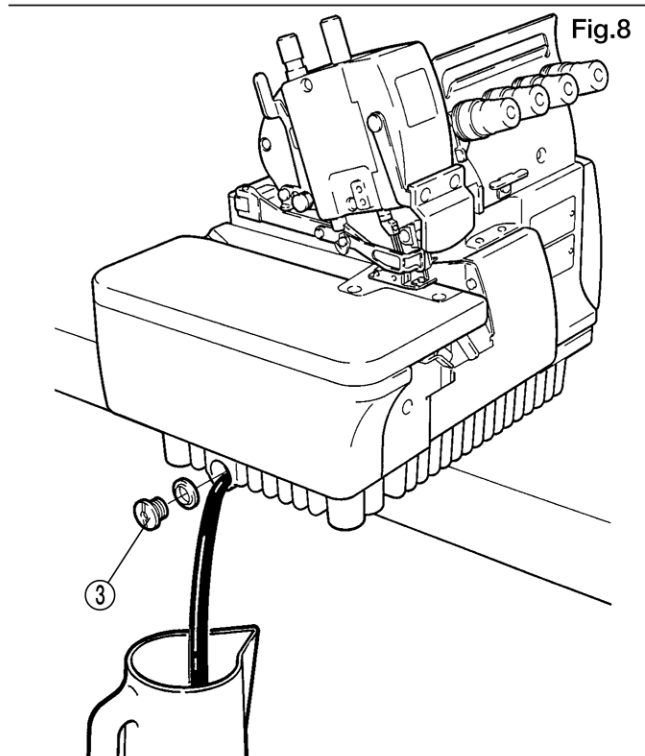


Fig.8

REPLACING THE NEEDLE

To replace the needle, loosen screws ① as shown below (do not remove screws). Check the needle carefully to see that the scarf is turned to the rear of the machine and insert the needle to the proper depth.

Then tighten screws ①.

M732 Series

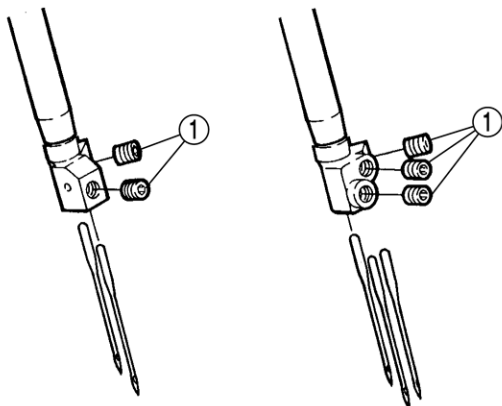


Fig.9

M752 Series

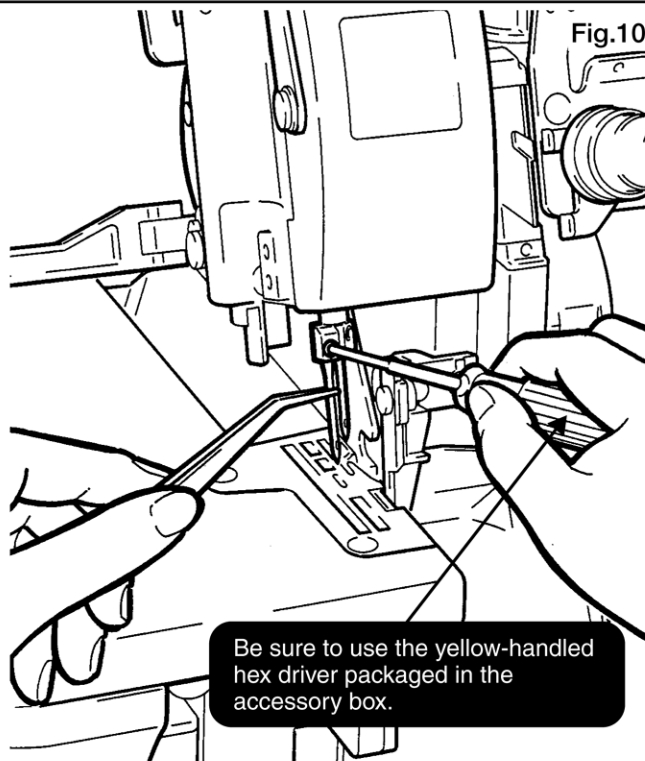
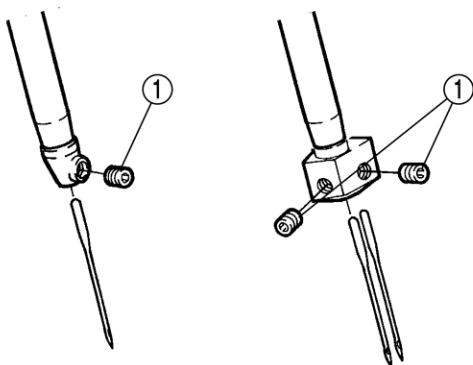
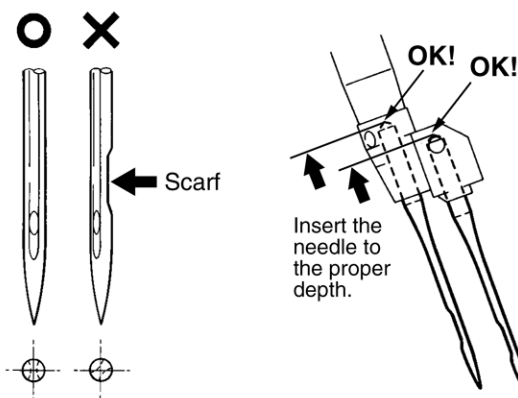


Fig.11



ADJUSTING THE THREAD TENSION

Make tension adjustments with the needle thread knob ②, the upper looper knob ③ and the lower looper knob ④.

To tighten the thread, turn each knob clockwise.

To loosen the thread, turn each knob counterclockwise.

Each thread tension should be as light as possible, yet be sufficient to produce balanced and beautiful stitches.

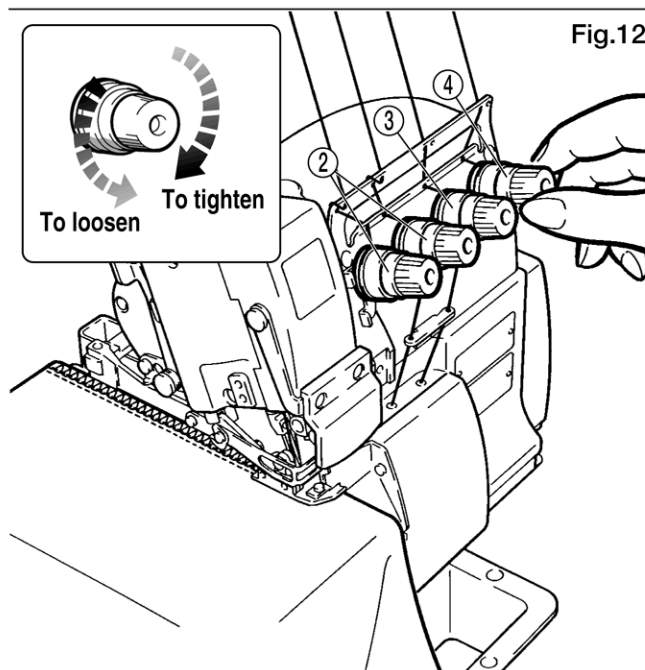


Fig.12

OPENING/CLOSING THE PRESSER ARM

To open the presser arm

1. Turn the handwheel until the needle is at its highest position.
2. Move presser foot lift lever ① down and then swing presser arm ② aside.

To replace the presser arm

1. Turn the handwheel until the needle is at its highest position.
2. Move presser foot lift lever ① down and then replace presser arm ②.

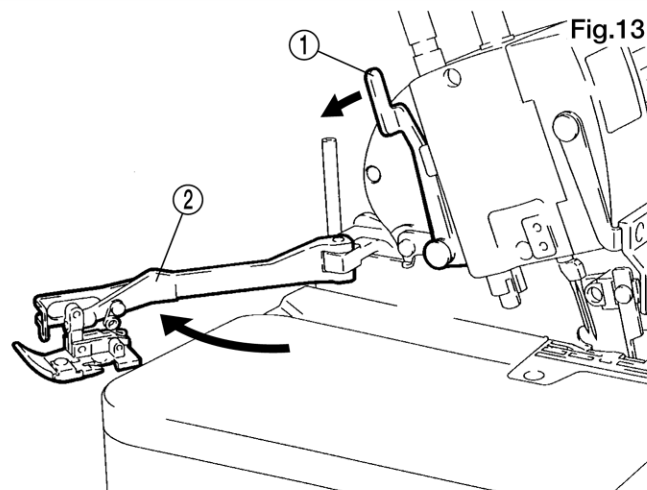


Fig.13

ADJUSTING PRESSER FOOT PRESSURE

The presser foot pressure should be as light as possible, yet sufficient to feed the fabric correctly and provide the uniform stitch formation.

1. To adjust the presser foot pressure turn adjusting screw ③ as required.

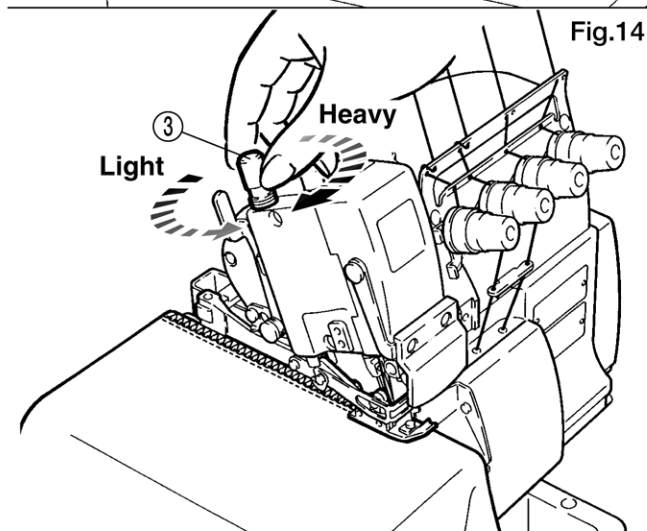


Fig.14

ADJUSTING STITCH LENGTH

1. With push button ④ depressed slightly, turn the handwheel. The push button will become depressed further.
2. In this condition, to produce coarse stitches, turn handwheel ⑤ in the direction of (+) and to produce fine stitches, turn handwheel ⑤ in the direction of (-).

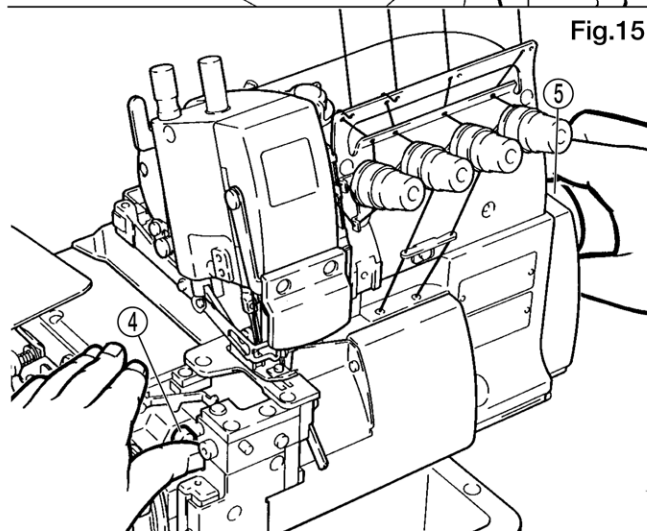


Fig.15

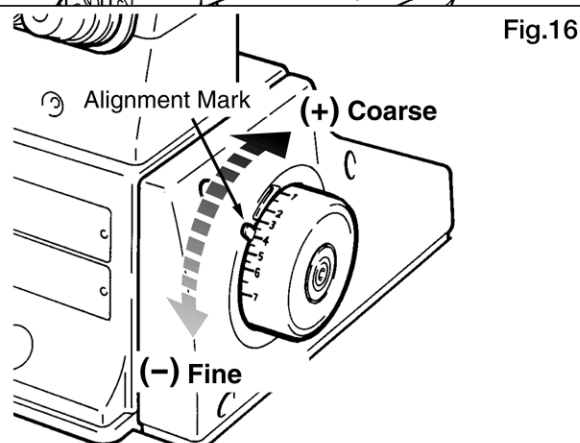
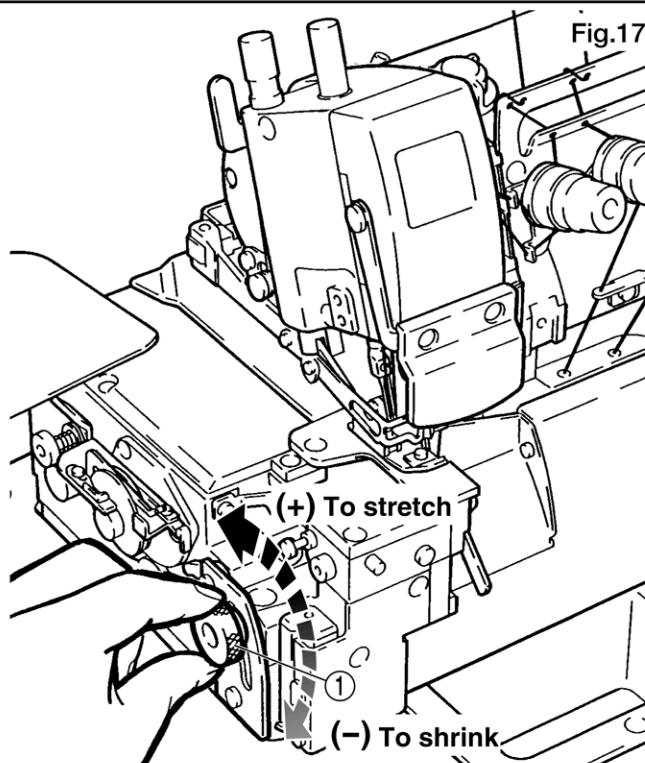


Fig.16

ADJUSTING THE DIFFERENTIAL FEED RATIO

1. Loosen nut ①. To sew while shrinking, increase the differential feed ratio by moving nut ① downward. To sew while stretching, decrease the differential ratio by moving nut ① upward.

2. After this adjustment is made, tighten nut ①.

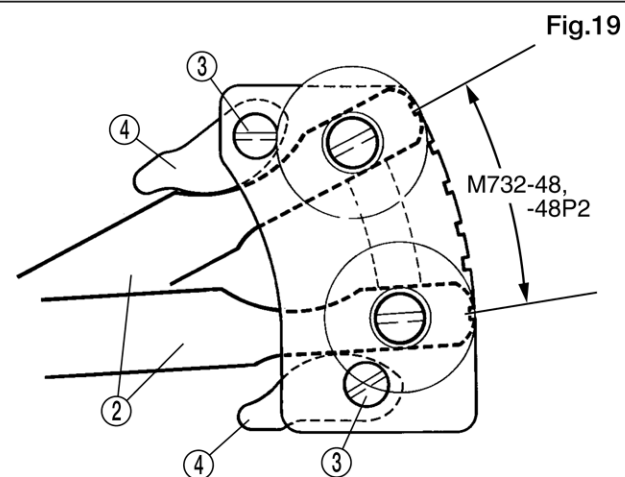
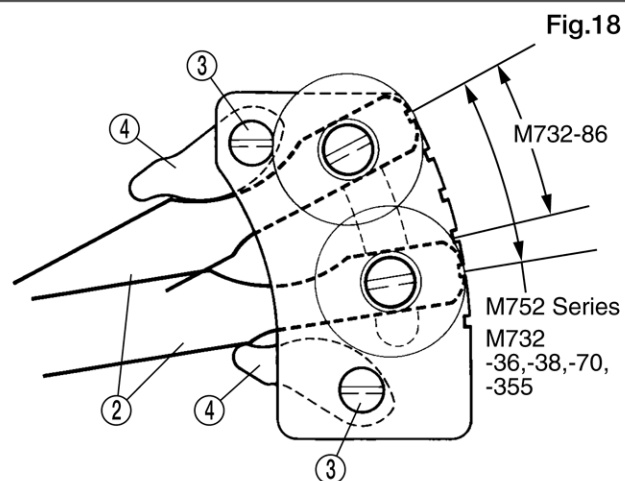


ADJUSTABLE RANGE OF THE DIFFERENTIAL FEED ADJUSTING LEVER

The adjustable range of differential feed adjustment lever ② varies by machine model.

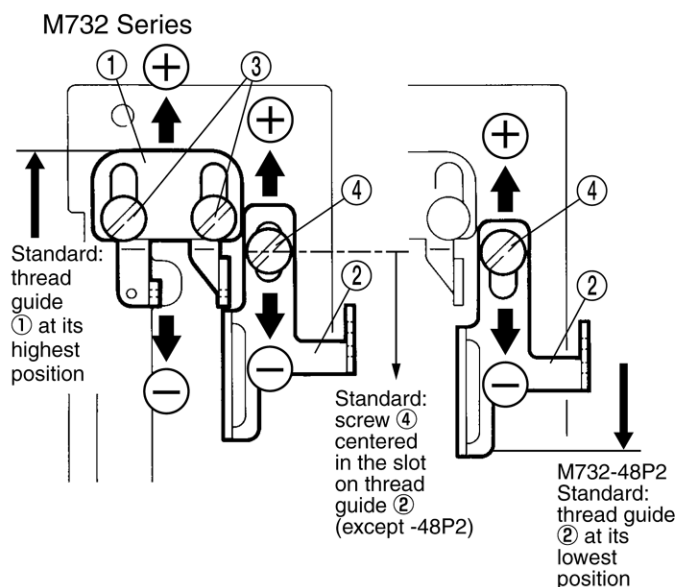
Differential feed adjustment lever ② should be set within this range. Otherwise when the stitch is lengthened, the main feed dog and the differential feed dog may collide each other. It causes damage to the machine. Adjustment is made by loosening screw ③ and moving stopper ④ (see the illustration).

Always adjust lever ② while checking to see if lever ② is positioned within the adjustable range.



STANDARD POSITION OF THE THREAD GUIDES & THREAD SUPPLY AMOUNT

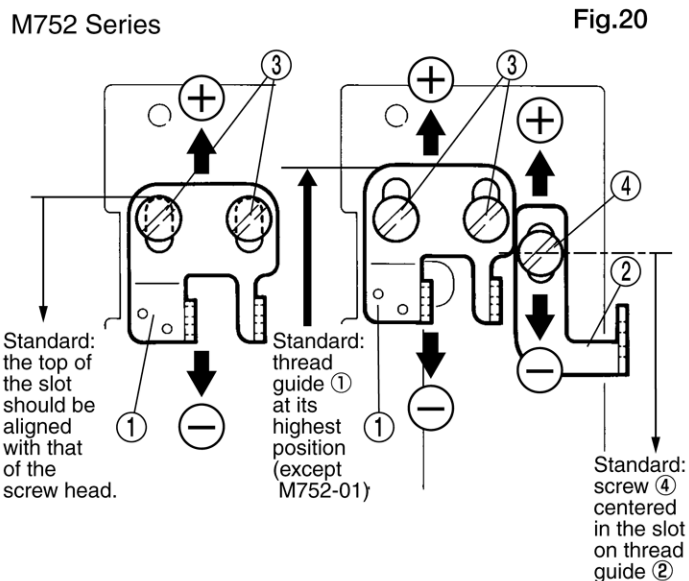
Loosen screws ③ and ④. Adjustment is made by moving thread guides ① and ② up or down as required (see the illustration). To increase the supply amount, move thread guides ① and ② in the direction of ⊕. To decrease the supply amount, move thread guides ① and ② in the direction of ⊖.



Model	Position of ①	Position of ②
Standard (except -48P2)	At its highest position	Screw ④ centered in the slot on ②
M732-48P2	At its highest position	At its lowest position

To increase the amount of thread, move in the direction of ⊕ as shown below.

To decrease the amount of thread, move in the direction of ⊖ as shown below.



Model	Position of ①	Position of ②
Standard (except M752-01)	At its highest position	Screw ④ centered in the slot on ②
M752-01	See the illustration	Screw ④ centered in the slot on ②

STANDARD POSITION OF THE DOUBLE CHAINSTITCH LOOPER THREAD TAKE-UP

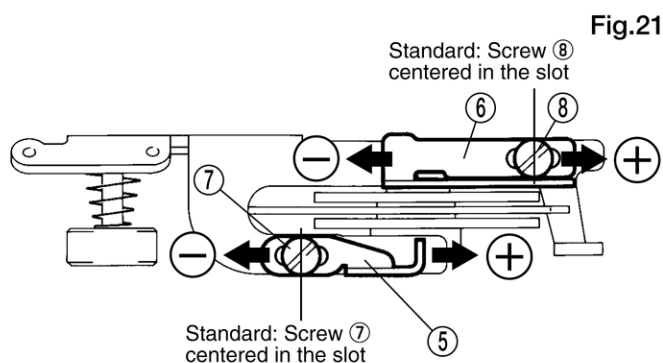
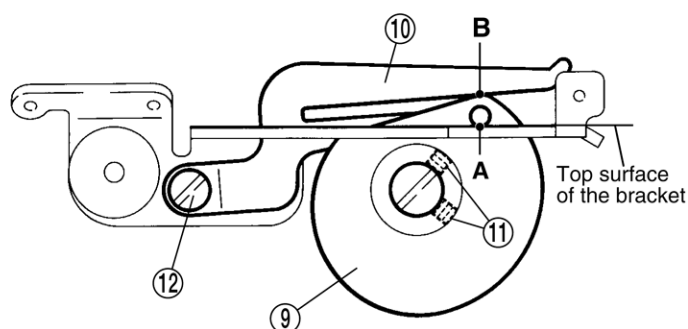
1. Point A on double chainstitch looper thread take-up ⑨ should be flush with the top surface of the bracket. Adjustment is made by loosening screws ⑪ and turning double chainstitch looper thread take-up ⑨ as required.

2. Thread take-up guide ⑩ should be aligned with double chainstitch looper thread take-up ⑨ at point B. Adjustment is made by loosening screw ⑫ and moving thread take-up guide ⑩ up or down. Double chainstitch looper thread supply amount

3. Adjustment is made by loosening screws ⑦ and ⑧ and moving thread guides ⑤ and ⑥ to the left or right (see the illustration).

To increase the supply amount, move thread guides ⑤ and ⑥ in the direction of ⊕.

To decrease the supplying amount, move thread guides ⑤ and ⑥ in the direction of ⊖.



STANDARD POSITION OF THE LOOPER THREAD TAKE-UPS AND THREAD GUIDES & LOOPER THREAD SUPPLY AMOUNT

1. Adjust looper thread take-up ⑬ when the lower looper is at the extreme right end of its travel. Adjust looper thread take-up ⑭ when the upper looper is at the top of its travel. The standard position of each looper thread take-up is as follows. Adjustment is made by loosening screws ⑮ and ⑯ and moving looper thread take-ups ⑬ and ⑭ (see the illustration).

Looper thread take-up ⑬ adjusts the supply amount of upper looper thread.

Looper thread take-up ⑭ adjusts the supply amount of lower looper thread.

2. Looper thread take-up ⑰ should be aligned with looper thread take-up ⑭ at point F. Adjustment is made by loosening screw ⑱ and moving looper thread take-up ⑰.

To increase the supply amount, move looper thread take-up ⑰ in the direction of ⊕.

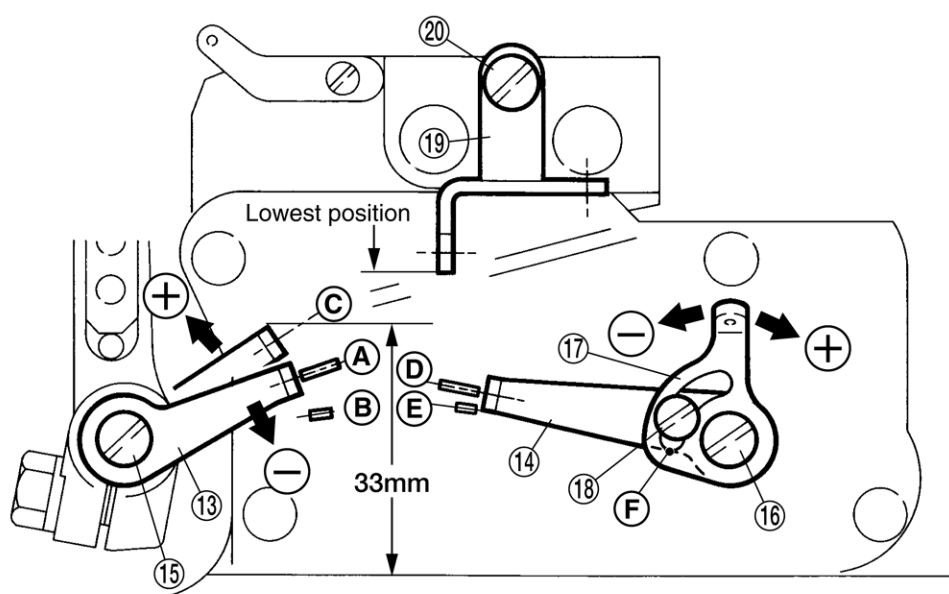
To decrease the supply amount, move looper thread take-up ⑰ in the direction of ⊖ (see the illustration).

To increase the supply amount, move looper thread take-ups ⑰ in the direction of ⊕.

To decrease the supply amount, move looper thread take-ups ⑰ in the direction of ⊖ (see the illustration).

3. Thread guide ⑲ should be at its lowest position. Adjustment is made by loosening screw ⑳ and moving thread guide ⑲.

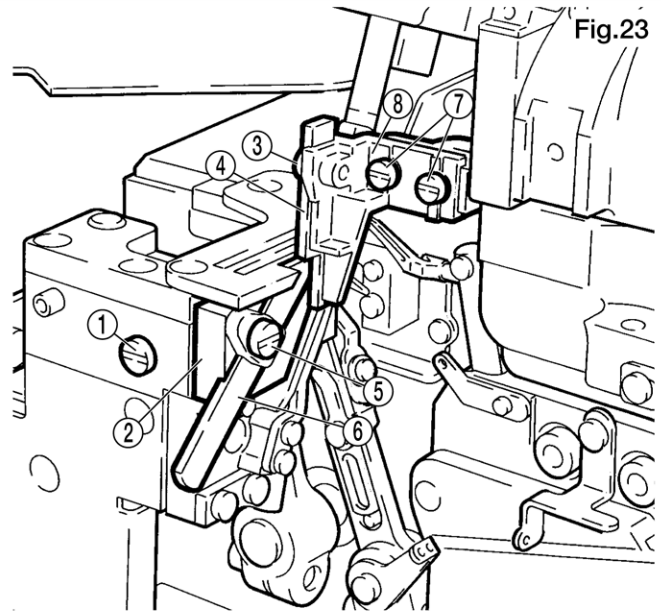
Fig.22



Model	Position of ⑬	Position of ⑭
M732	Ⓐ	Ⓓ
M752 (except -16S2,-23B)	Ⓐ	Ⓓ
M752-16S2	Ⓑ	Ⓔ
M752-23B	Ⓒ (33mm)	Ⓓ

REPLACING THE UPPER KNIFE

1. Loosen screw ①.
Move lower knife holder ② to the extreme left position.
Tighten screw ① temporarily.
2. Remove screw ③ and knife ④. Place a new knife temporarily with screw ③. Turn the machine pulley until the upper knife holder is at the bottom of its travel. There should be 0.5 - 1.0mm overlap of the upper and lower knives. Adjustment is made by moving the upper knife up or down (Fig.A).
3. Overlap the cutting edges of the upper and lower knives so that midpoint (A) on upper knife ④ and the midpoint of lower knife ⑥ are crossed (Fig. B). Loosen screw ①.
Make sure the upper and lower knives mate positively.
Then tighten screw ①.
4. Place a thread between the upper and lower knives.
Check the cutting action by turning the handwheel.



(Fig.A)

(Fig.B)

REPLACING THE LOWER KNIFE

1. Loosen screw ①.
Move lower knife holder ② to the extreme left position.
Tighten screw ① temporarily.
2. Remove screw ⑤ and lower knife ⑥. Place the lower knife by referring to procedure 3 and 4 shown above.
Check to make sure that the cutting edge of the lower knife is set 0 - 0.3mm below the top surface of the needle plate.

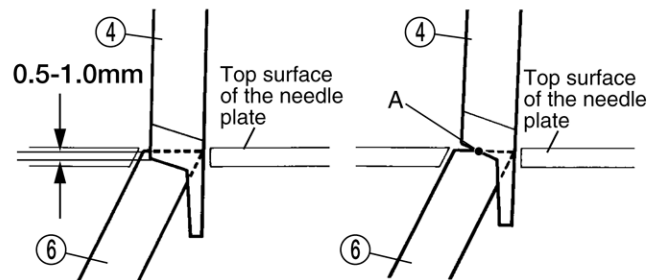
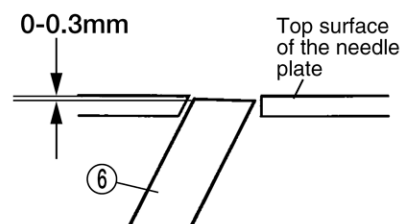


Fig.24

ADJUSTING OVEREDGE WIDTH

1. Loosen screw ①, move lower knife holder ② all the way to the left and then tighten the screw ① temporarily.
2. Loosen screw ⑦, move upper knife clamp ⑧ left or right as required.
Install upper and lower knives by referring to "REPLACING THE UPPER KNIFE" procedures 3 - 4.



KNIVES

Knives must be kept sharp.

If the machine does not trim the fabric sharply, sharpen the lower knife.

Sharpening Lower Knife

Sharpen the lower knife as specified in Fig.25.

Upper Knife

Upper Knife may be sent to our distributors or returned to us for resharpening since it requires special grinding.

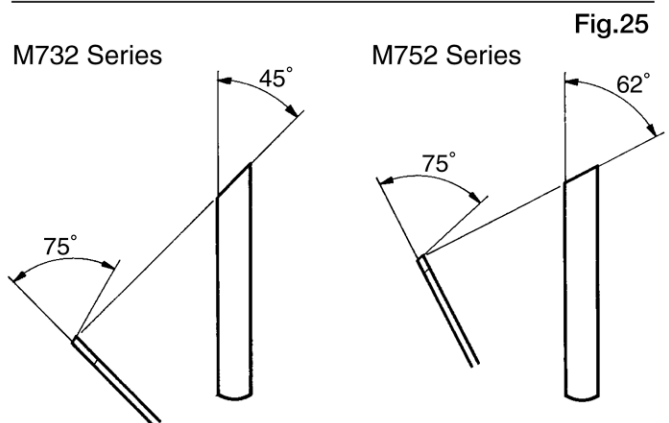


Fig.25

REPLACING THE FEED DOGS

1. Differential feed dog

- Loosen screw ④ and remove differential feed dog ③.
- Install a new differential feed dog and tighten screw ④.

2. Main feed dog

- Loosen screw ① and remove main feed dog ②.
- Install a new main feed dog and tighten screw ①.

FEED DOG HEIGHT

1. Turn the handwheel until the main feed dogs ② reach the highest position of their stroke.

2. Loosen screw ①. Adjust main feed dog ② so that the second to third feed dog teeth is set 1mm above the top surface of the needle plate. Then tighten screw ①.

3. Raise the feed dogs by turning the handwheel. When tips of main feed dog ② are level with the top surface of the needle plate, tips of differential feed dog ③ should be also level with the top surface of the needle plate. Tighten screw ④.

TILT ADJUSTMENT

1. When the main feed dog and the differential feed dog have been raised from the bottom of their stroke to the top surface of the needle plate, they should be level with the top surface of the needle plate.

2. Loosen screw ⑤. Insert screwdriver A into the groove on washer ⑥. Tilt adjustment is made by moving washer ⑥ up or down. To tilt the front end of the feed dog up, move washer ⑥ downward. To tilt the front end of the feed dog down, move washer ⑥ upward. Be sure to press washer ⑥ slightly in the direction of the arrow with screwdriver B when this adjustment is made.

AUXILIARY FEED DOG HEIGHT

To change the distance loosen screw ⑦ and move auxiliary feed dog ⑧ up or down as required.

- ※ When the size of the thread to be used is extremely changed, adjust the auxiliary feed dog height (level difference between the main feed dog and the auxiliary feed dog).
- The auxiliary feed dog should be set lower than the main feed dog.

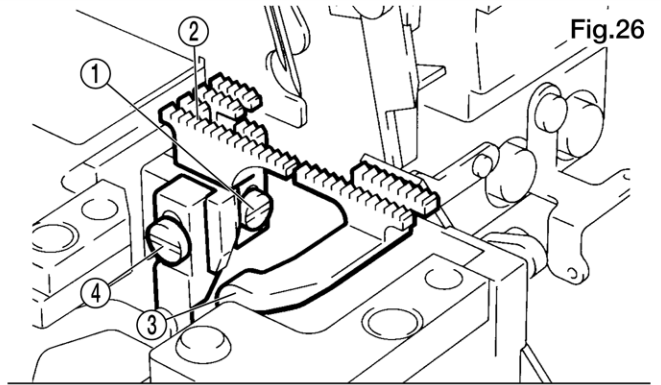


Fig.26

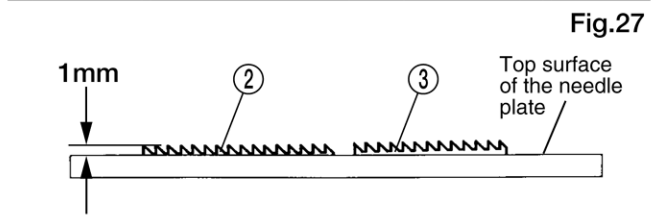


Fig.27

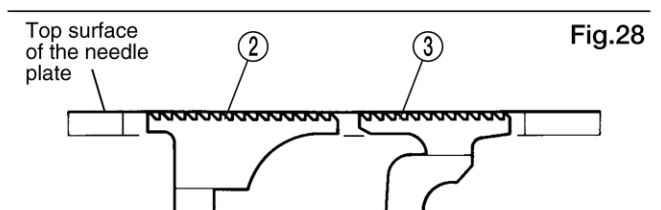


Fig.28

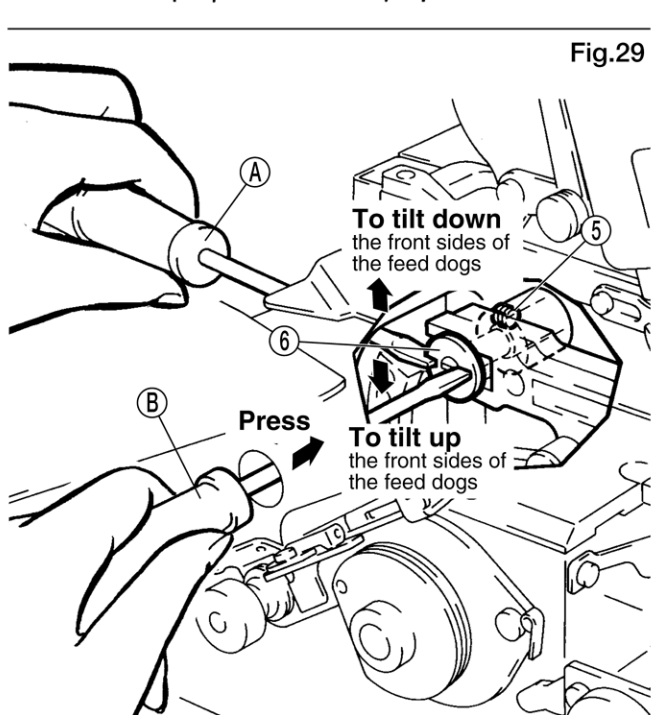
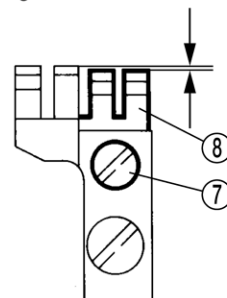


Fig.29

In the case of the needle plate with chaining land:
The auxiliary feed dog should be set 0mm below the main feed dog.

In the case of the needle plate without chaining land:
The auxiliary feed dog should be set 0.8 mm below the main feed dog.

Fig.30

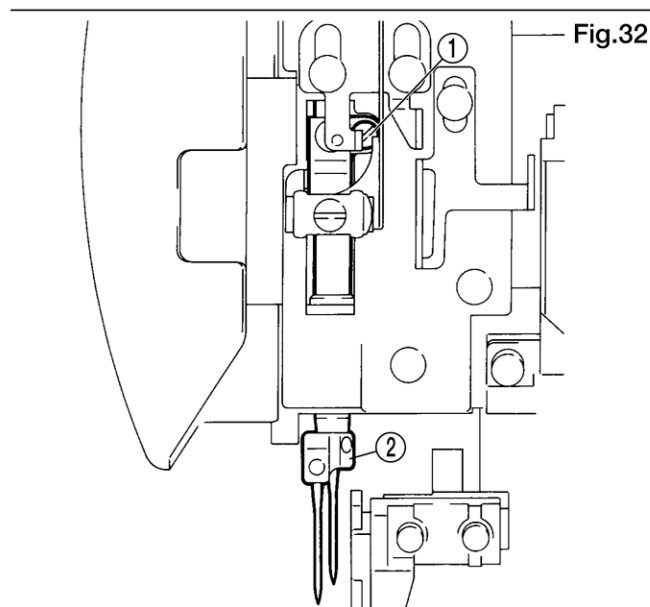
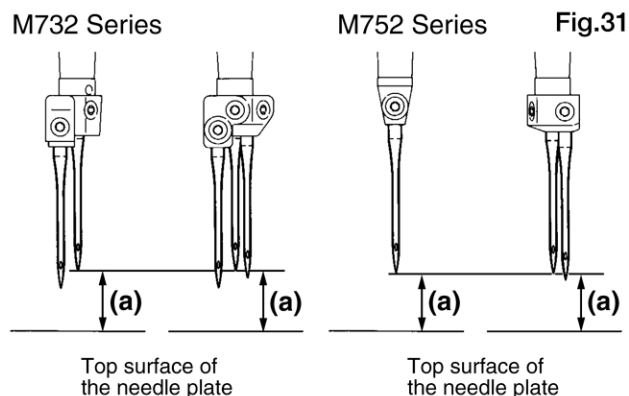


NEEDLE HEIGHT

1. First, check to see if the needle is inserted to the proper depth.
2. Turn the handwheel until the needle reaches the highest position of its stroke.
3. Adjust vertical distance (a) between the point of the needle and the top surface of the needle plate. To make this adjustment, loosen screw ① with a supplied T wrench and move needle holder guide ② up or down as required.

The height of the needle varies with models.

Adjust the height of the needle according to the model (see the table of the adjustment dimensions on page 20).



ADJUSTING THE LOWER LOOPER

1. To install the lower looper

Loosen screw ③. Bring lower looper ④ down until the bottom contacts pin ⑤. Then tighten screw ③.

2. Lower looper setting distance

When the lower looper is at the farthest position to the left, adjust setting distance (b) between the center line of the overlock needle and the point of the lower looper according to the machine type.

To make this adjustment, loosen screw ⑥ and move looper holder ⑦ left or right as required.

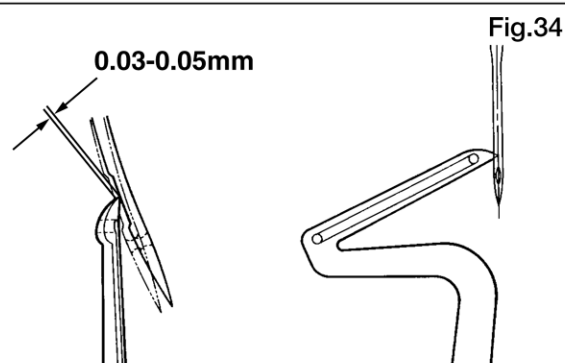
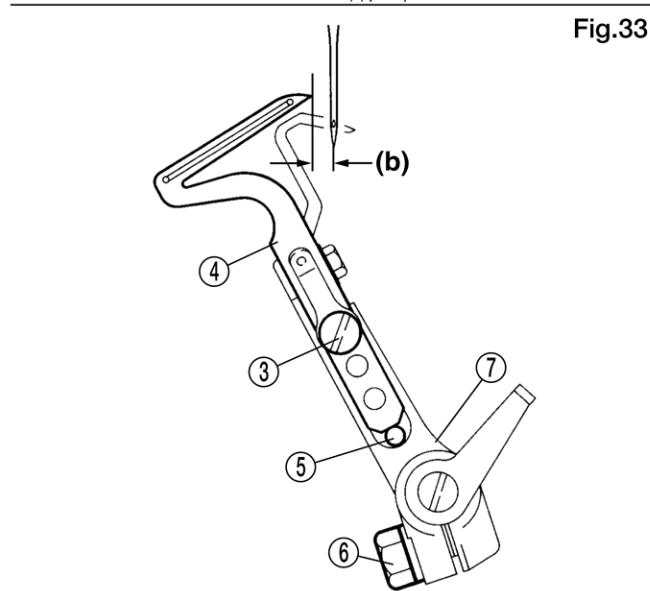
The looper-needle setting distance varies with models.

Adjust the looper-needle setting distance according to the model (see the table of the adjustment dimensions on page 20).

3. Lower looper front-to-back adjustment

When the point of the lower looper has reached the center line of the needle from the left, the needle should be deflected 0.03-0.05mm toward to the operator by the lower looper.

To make this adjustment, loosen ⑥ and move looper holder ⑦ front or back.



ADJUSTING THE UPPER LOOPER

1. With upper looper ① at the extreme left end of its travel, adjust distance (a) (see the illustration) from the center line of the needle to the point of upper looper ① by referring to the table of the adjustment dimensions on page 20. Tighten screw ② temporarily. Then adjust clearances (b: 0.3-0.5mm) and (c: 0.05-0.15mm) when the point of the upper looper and the lower looper cross each other on the back side of the lower looper. Tighten screw ②.

The looper-needle setting distance and the position of the upper looper vary with models. Be sure to check the table of the adjustment dimensions on page 20.

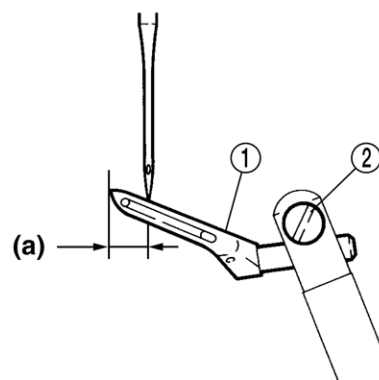


Fig.35

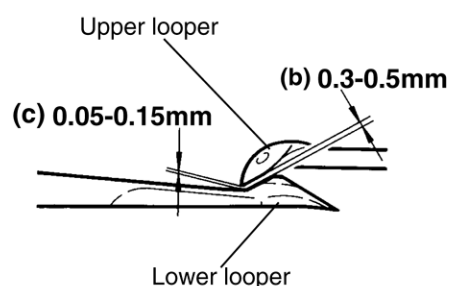


Fig.36

ADJUSTING THE DOUBLE CHAINSTITCH LOOPER (M732 SERIES)

1. To position the double chainstitch looper

Loosen screw ①. Lower double chainstitch looper ② until it contacts bottom surface (A). Then tighten screw ①.

2. Looper-needle setting distance of the double chainstitch looper

- 1) Turn the machine pulley until double chainstitch looper ② is at the extreme left end of its travel.
- 2) A distance of 1.5mm from the center line of the needle to the point of double chainstitch looper ② is required. To make this adjustment, loosen screw ③ and mover looper holder ④ to the left or right.
- 3) Tighten screw ③ temporarily.

3. Front to back position of the double chainstitch looper in relation to the needle

- 1) Move the double chainstitch looper from the extreme left end of its travel to the center line of the double chainstitch needle by turning the handwheel.
- 2) Loosen screw ③. Move looper holder ④ back and forth as required. Clearance (a) between the point of the double chainstitch looper and the needle should be as follows.
- 3) Tighten screw ③.

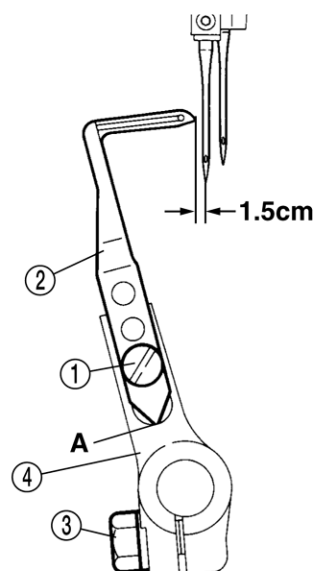


Fig.37

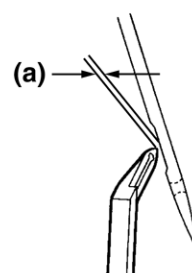


Fig.38

Model	Clearance (a)	
Standard (except M732-86)	0~0.02mm	
M732-86	0.02~0.05mm	

ADJUSTING THE NEEDLE GUARD

M732 Series

1. Adjusting the overlock needle guards

When the point of the lower looper has reached the center line of the overlock needle from the left, check to see if the needle is deflected 0.03 - 0.05mm toward the operator by the lower looper. (Refer to page 14 "ADJUSTING THE LOWER LOOPER" for this adjustment.)

•To adjust rear needle guard ①

In the above condition, adjust rear needle guard ① so that the needle is deflected by rear needle guard ① and clearance (a) is 0 - 0.05mm. To make this adjustment, loosen screw ② and move rear needle guard ① front or back as required.

•To adjust front needle guard ③

When the point of the lower looper is at the center line of the needle and the needle is deflected most by rear needle guard ①, clearance (b) between the needle and front needle guard ③ should be 0.1 - 0.2mm.

To make this adjustment, loosen screws ④ and front move needle guard ③ front or back as required.

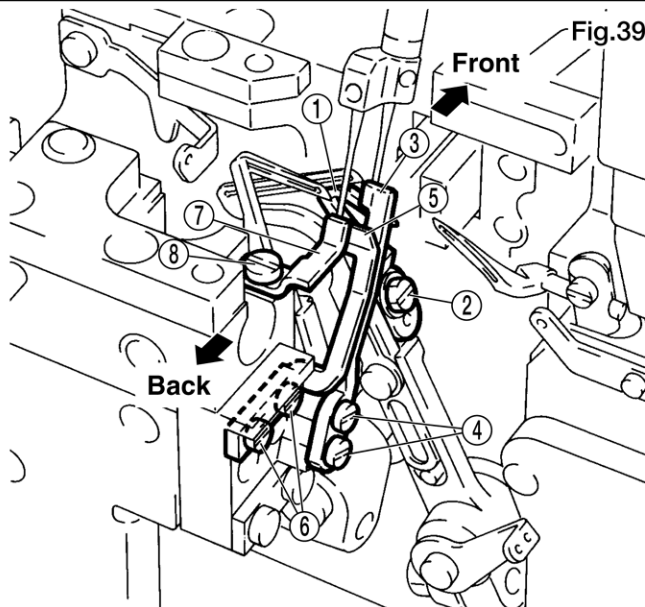


Fig.40

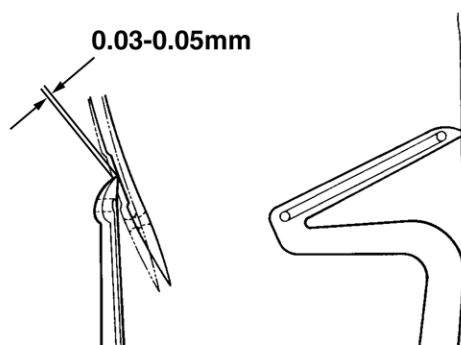


Fig.41

2. Adjusting the double chainstitch needle guards

•To adjust rear needle guard ⑤

When the double chainstitch needle is at the lowest position of its stroke, clearance (c) between the double chainstitch needle and rear needle guard ⑤ should be 0mm.

To make this adjustment, loosen screws ⑥ and move rear needle guard ⑤ front or back as required.

•To adjust front needle guard ⑦

Adjust clearance (d) between the double chainstitch front needle and needle guard ⑦ to 0.1mm - 0.2mm.

To make this adjustment, loosen screw ⑧ and move front needle guard ⑦ front or back as required.

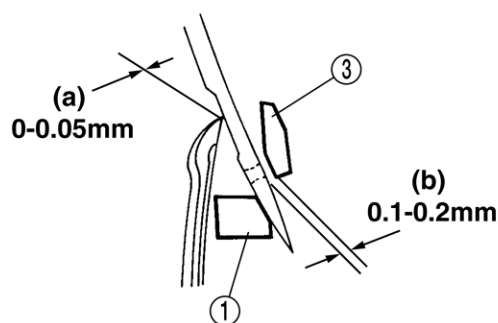
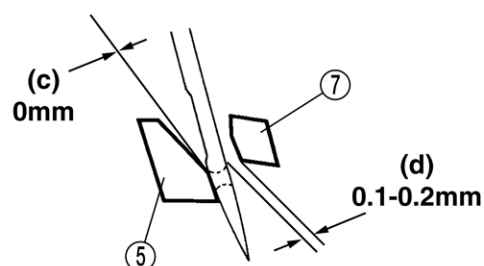


Fig.42



ADJUSTING THE NEEDLE GUARD

M752 Series

Adjusting the overlock needle guards

When the point of the lower looper has reached the center line of the overlock needle from the left, check to see if the needle is deflected 0.03 - 0.05mm to the operator by the lower looper (Refer to page 14. "ADJUSTING THE LOWER LOOPER" for this adjustment.)

•To adjust rear needle guard ①

In the above condition, adjust rear needle guard ① so that the needle is deflected by rear needle guard ① and clearance (a) is 0 - 0.05mm.

To make this adjustment, loosen screw ② and move rear needle guard ① front or back as required.

•To adjust front needle guard ③

Check to make sure that end (c) of bracket ⑤ is flush with end (d) of front needle guard ③.

When the point of the lower looper is at the center line of the needle and the needle is deflected most by rear needle guard ①, clearance (b) between the needle and front needle guard ③ should be 0.1 - 0.2mm. To make this adjustment, loosen screw ④ and move front needle guard ③ front or back as required.

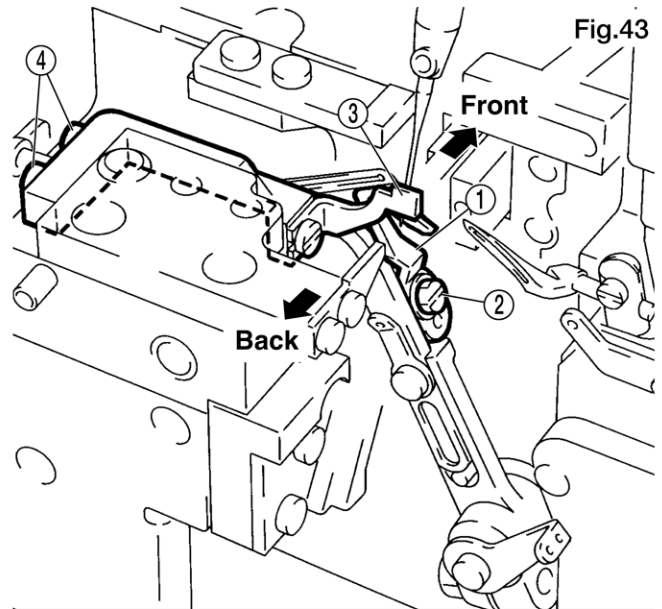


Fig.44

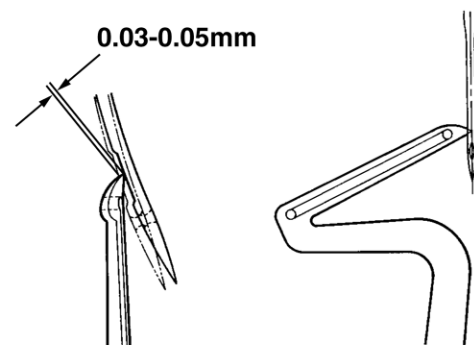


Fig.45

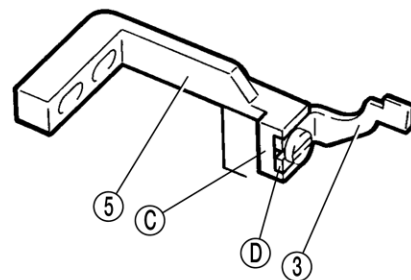
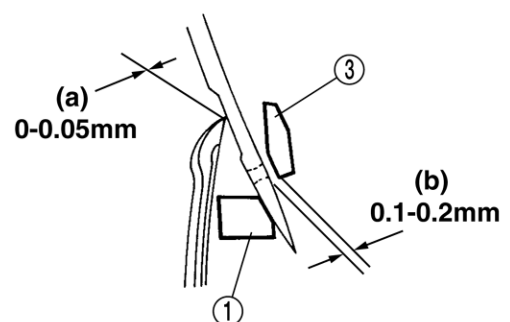
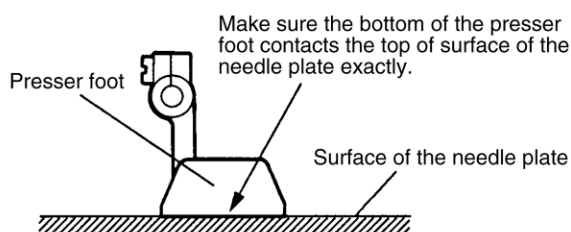


Fig.46



INSTALLING THE PRESSER FOOT

1. Loosen adjusting screw ① until the spring pressure on the presser arm is removed.
2. Turn the handwheel until the needle reaches the highest position of its stroke.
3. Install the presser foot so that the bottom of the presser foot contacts the top surface of the needle plate exactly with the needle slots of the presser foot aligned with those of the needle plate.
Loosen screw ② for the M732 Series, and loosen screws ③ and ④ for the M752 Series.



4. Adjust the presser foot pressure by referring to page 8.

M732 Series

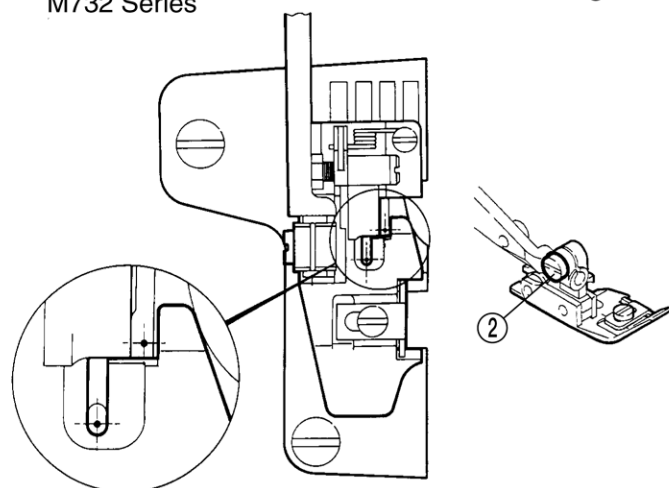


Fig.47

M752 Series

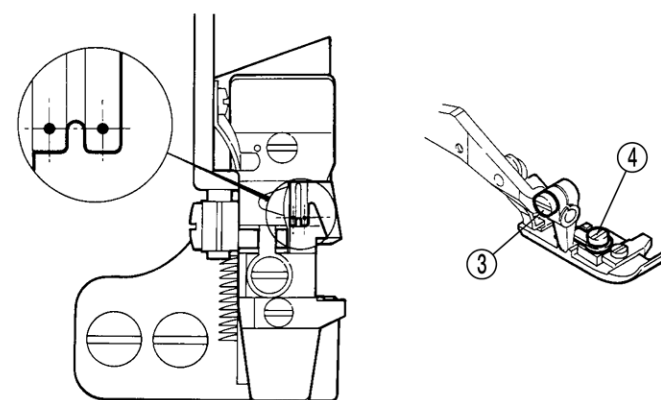


Fig.48

ADJUSTING THE PRESSER ARM LEFT TO RIGHT

1. Loosen screw ⑤.
2. Move hand lift lever ⑥ down. Presser bar ⑦ should be removed from presser arm ⑧ smoothly.
To make this adjustment, move presser arm shaft ⑨ left or right as required.
3. Tighten screw ⑤.

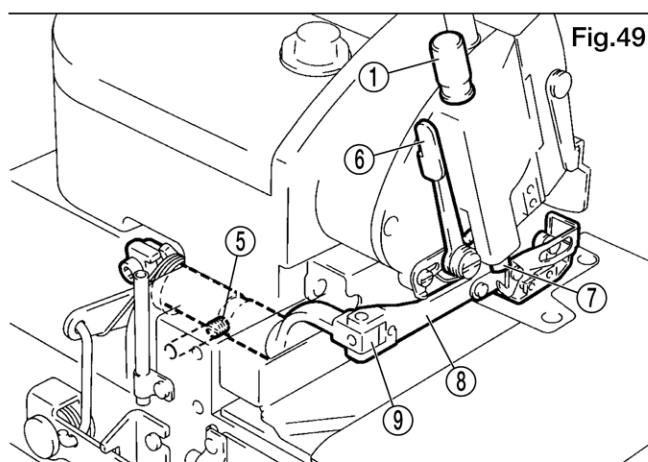


Fig.49

ADJUSTING THE PRESSER FOOT LIFT LEVER

1. Set the feed dog above the needle plate.
2. Loosen screw ⑩.
3. While pushing collar ⑪ and presser arm shaft ⑫ in the direction of the arrow (there should be no left-to-right shake.), turn collar ⑪ in the direction of the arrow. Then set the clearance between presser foot lift lever ⑬ and stopper ⑭ at approximately 2mm.
4. Tighten screw ⑩.

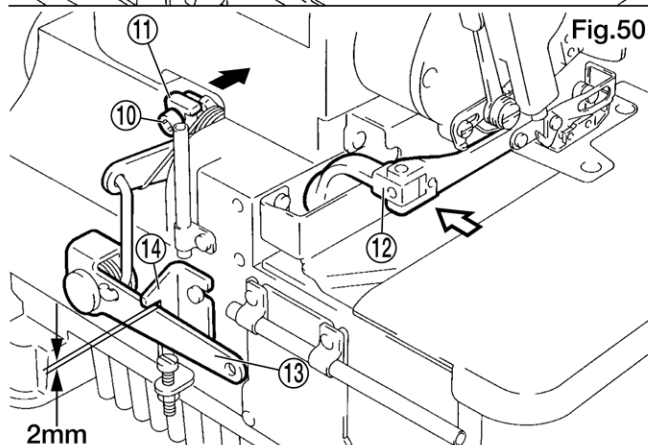


Fig.50

ADJUSTING THE PRESSER FOOT LIFT

M732 Series

1. Loosen nut ②.
2. When presser foot lift lever ① is lowered, the rear presser foot should be on the verge of being raised from the top surface of the needle plate. To make this adjustment, move stopper bolt ③ up or down as required.
3. Tighten nut ②.

The presser foot lift adjustment of M732 Series (see the table of the adjustment dimensions on page 20) should be made in the next procedure (see "Adjusting the presser foot stopper").

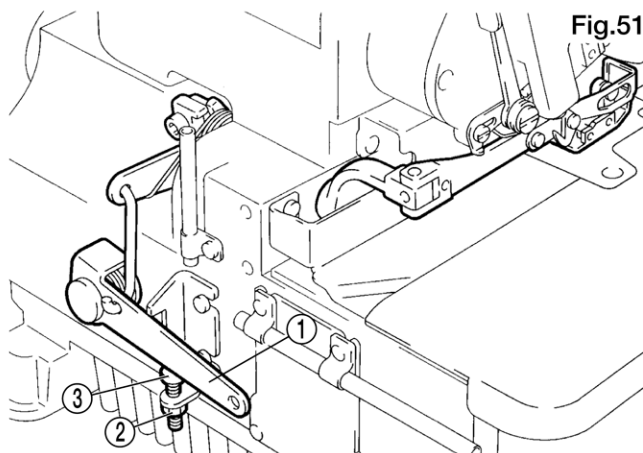


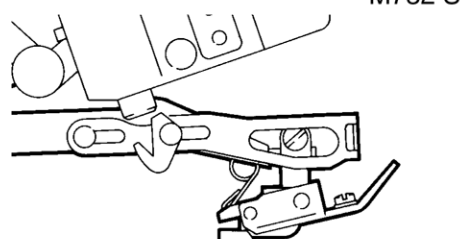
Fig.51

M752 Series

1. Tighten nut ②.
2. Lower lever ① and then adjust clearance (a) between the top surface of the needle plate and the bottom of the presser foot. To make this adjustment, move stopper bolt ③ up or down as required.
3. Tighten nut ②.

The presser foot lift varies with models.

Adjust the presser foot lift according to the model (see the table of the adjustment dimensions on page 20).



Rear presser foot should be on the verge of being raised from the top surface of the needle plate.

M732 Series

ADJUSTING THE PRESSER FOOT STOPPER

M732 Series

1. Loosen screw ⑥.
2. Adjust distance (a) from the top surface of the needle plate to the bottom surface of the presser foot by raising presser arm ⑤ (see the table of the adjustment dimensions on page 20). With presser arm ⑤ in this condition, there should be a clearance (see (b) in the illustration below) of 0mm between stopper ④ and presser arm ⑤. Adjustment is made by moving stopper ④ up or down as required.
3. Tighten screw ⑥.

The presser foot lift varies with models.

Adjust the presser foot lift according to the model (see the table of the adjustment dimensions on page 20).

M752 Series

1. Loosen screw ⑥.
2. Raise the presser foot with the presser foot lift lever. With the presser foot in this condition, there should be a clearance (see (b) in the illustration below) of 0mm between stopper ④ and presser arm ⑤. Adjustment is made by moving stopper ④ up or down as required. Check to make sure that the bottom surface of the presser foot is level when the presser foot lift adjustment is made.
3. Tighten screw ⑥.

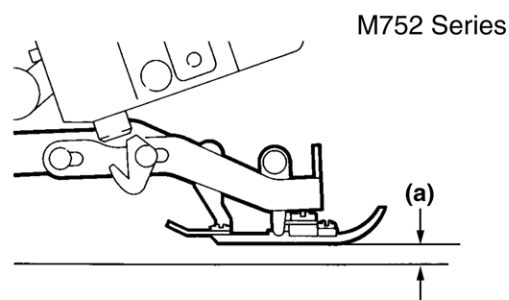
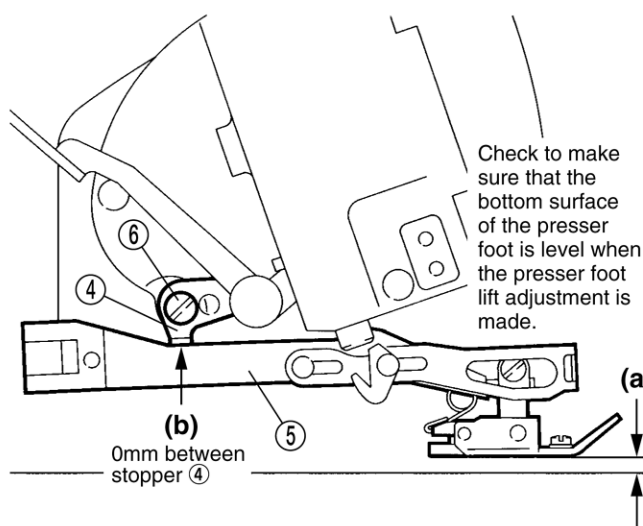


Fig.53



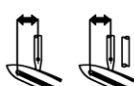
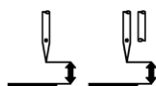
Check to make sure that the bottom surface of the presser foot is level when the presser foot lift adjustment is made.

0mm between stopper ④

ADJUSTMENT DIMENSIONS



Subclass	Needle bar height (mm)	Lower loop needle setting distance (mm)	Upper loop needle setting distance (mm)	Feed dog height (mm)	Presser foot lift (mm)	Double chainstitch loop needle setting distance (mm)
M732-36	10.6	3.9	5.1	0.9~1.1	5.5	1.5
M732-38	10.6	3.9	5.1	0.9~1.1	5.5	1.5
M732-48	10.1	3.9	5.1	0.9~1.1	5.5	1.5
M732-48P2	10.1	3.9	5.1	0.9~1.2	5.0	1.5
M732-70	10.6	3.9	5.1	0.9~1.1	5.5	1.5
M732-86	12.0	3.4	5.1	0.9~1.1	5.5	1.5
M732-355	12.0	3.6	5.8	0.9~1.1	5.5	1.5



Subclass	Needle bar height (mm)	Lower loop needle setting distance (mm)	Upper loop needle setting distance (mm)	Feed dog height (mm)	Presser foot lift (mm)	
M752-01	10.1	4.2	5.1	0.9~1.1	5.5	
M752-13	10.4	4.2	5.8	0.9~1.1	5.5	
M752-16S2	10.1	4.2	5.1	0.9~1.1	5.5	
M752-17	10.1	4.2	5.1	0.9~1.1	5.5	
M752-23B	10.6	4.2	5.8	0.9~1.1	7.0	
M752-54A	10.1	4.2	5.1	0.9~1.1	6.0	
M752-55A	10.4	4.2	5.8	0.9~1.1	5.5	
M752-180	10.1	4.2	5.1	0.9~1.1	5.5	
M752-181	10.4	4.2	5.8	0.9~1.1	5.5	

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