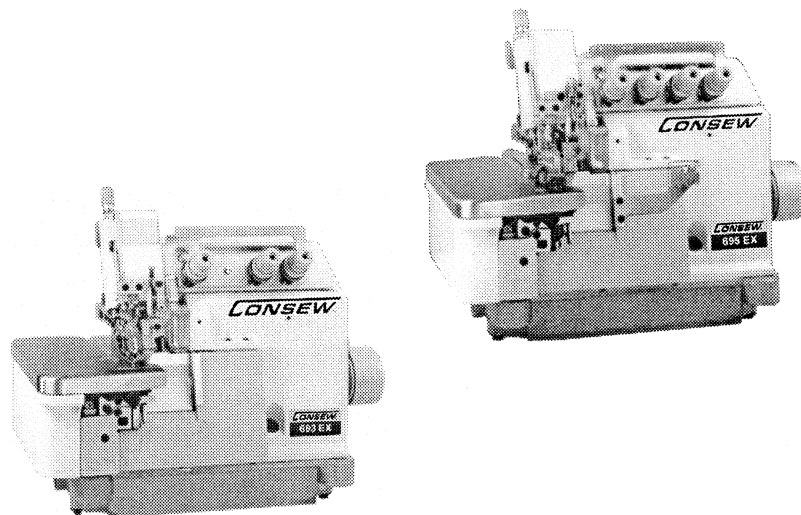


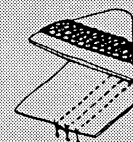
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# INSTRUCTION BOOK FOR Model 693/694/695 Series



**Safety Stitch & Overedging Machines**





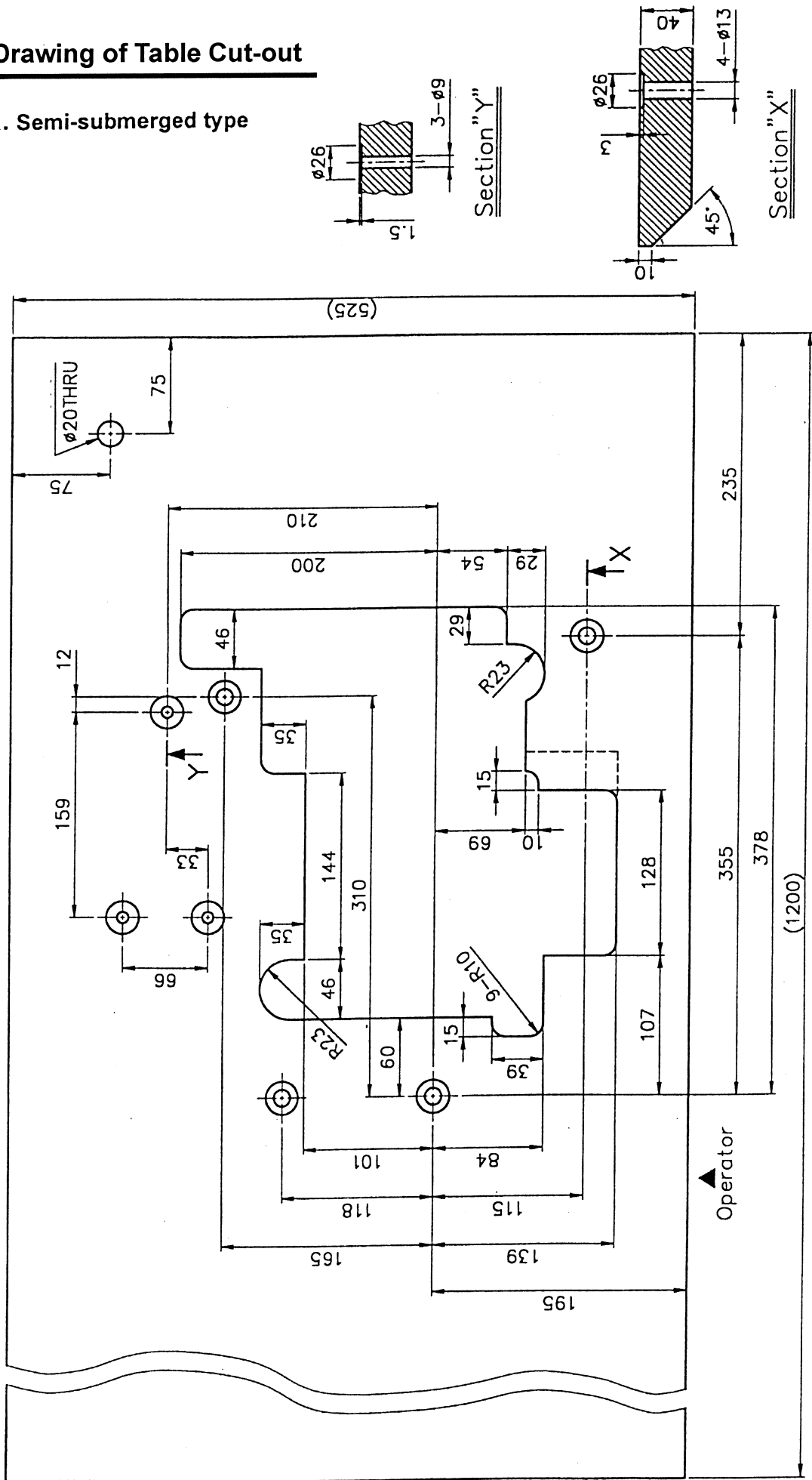
# INSTRUCTION BOOK FOR Model 693/694/695 Series Safety Stitch & Overedging Machines

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# Drawing of Table Cut-out

## 1. Semi-submerged type





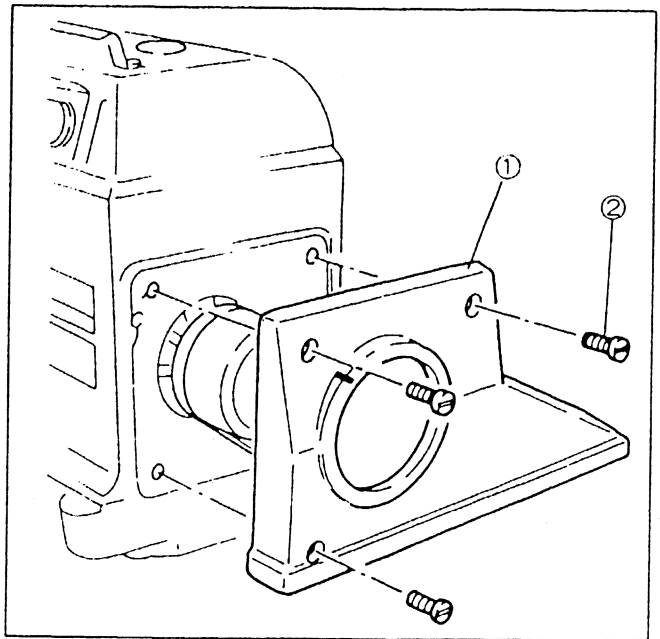
## Motor Pulley and Belt

1. Please use V-belt of M type
2. Please select a Motor Pulley that matches the sewing speed of the sewing machine (refer to the table below)

Motor Pulley Diameter	Sewing Speed (S.P.M.)	
	60Hz motor	50Hz motor
30 mm	1880	1570
35 mm	2195	1830
40 mm	2510	2100
45 mm	2820	2360
50 mm	3140	2620
55 mm	3450	2880
60 mm	3760	3140
65 mm	4080	3400
70 mm	4390	3665
75 mm	4705	3930
80 mm	5020	4190
85 mm	5330	4450
90 mm	5645	4710
95 mm	5960	4970
100 mm	6270	5240
105 mm	6590	5500
110 mm	6900	5760
115 mm	7210	6020
120 mm	7530	6280
125 mm	7840	6545
130 mm	8155	6810
135 mm	8470	7070
140 mm	8780	7330
145 mm	9095	7590
150 mm	9410	7850
155 mm	9720	8120
160 mm	10040	8930

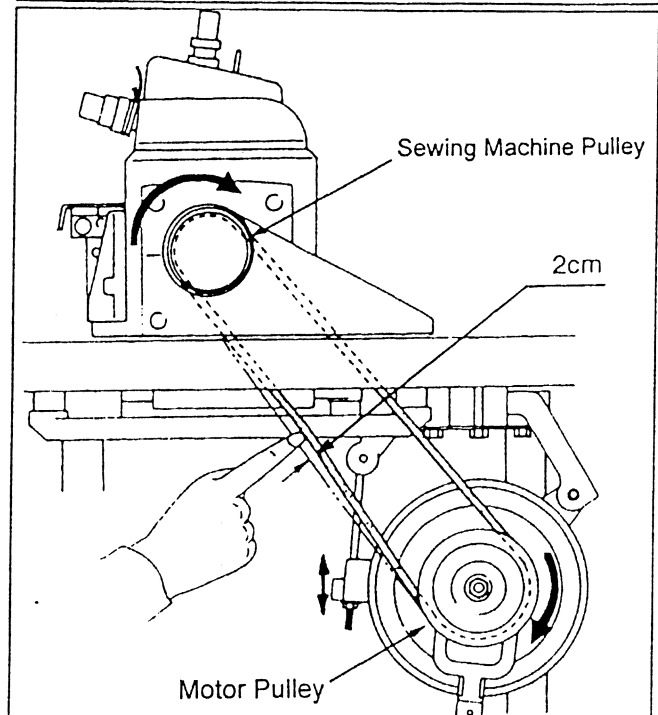
## Sewing Machine Installation

1. Set sewing machine on the table. Loop belt on the pulley of the sewing machine side first, then engage it on the motor pulley side.
2. Adjust center distance of the belt, and make 2cm of allowance when depressed by hand.
3. Install the Belt Cover<sup>①</sup> with the Screws<sup>②</sup>.



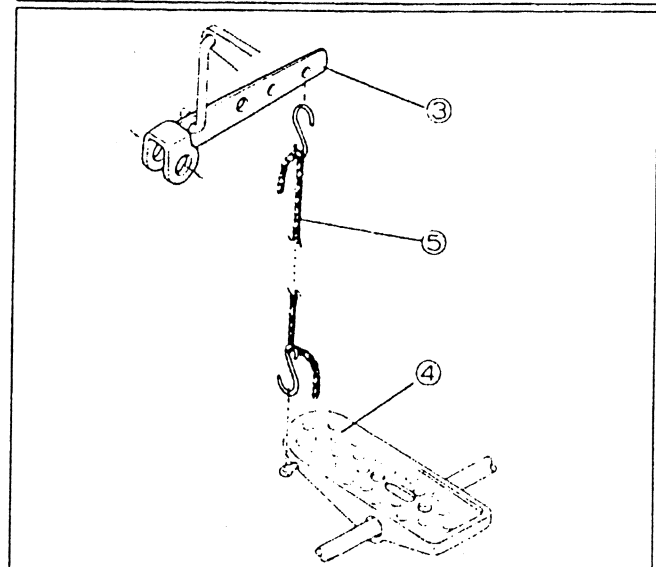
## Rotating Direction of Pulley

The rotating direction of the sewing machine is clockwise by viewing from the pulley side.



## Installation of Presser Lifter Chain

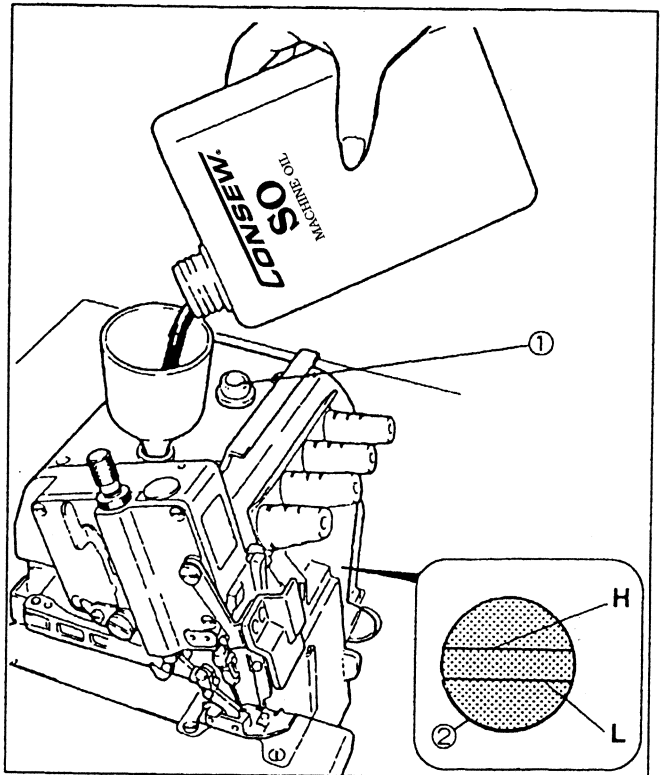
Link Presser Lifter Chain<sup>⑤</sup>, Presser Lifter Lever<sup>③</sup> and Pedal<sup>④</sup> together. The length adjusting of the chain is based on the easy operating angle of the pedal for the user.



## Lubrication

---

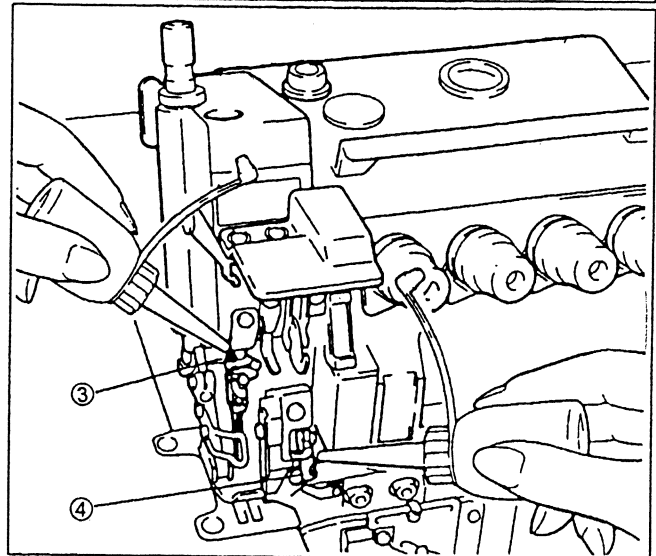
1. Please use the specified lubrication oil No.10 ( ISO viscosity grade/ VG22).
2. Open Oil Plug①, and fill oil till the oil level reaches the (H) line of Oil Indicator②. Then restore the Oil Plug.
3. (H) and (L) line indicate the upper and lower limits of the oil level. Add oil whenever the level drops below (L) line.



## Manual Lubrication

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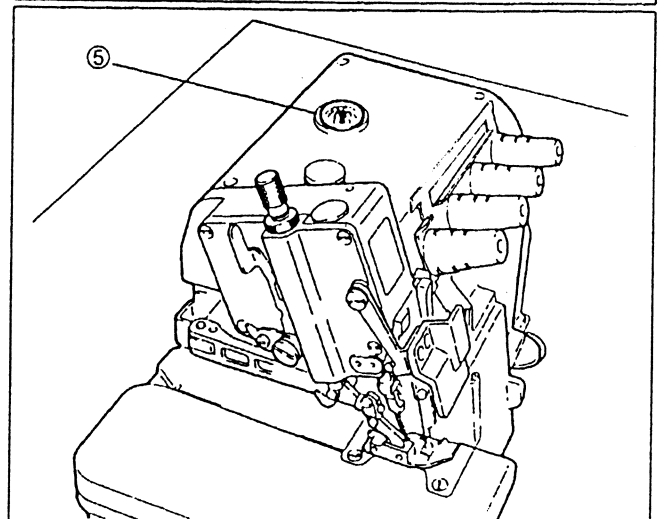
Apply 2 or 3 drops of oil by hand to Needle Bar③ and Upper Looter Holder④ when the machine is used for the first time or has been left unused for some time.



## Confirming Oil Circulation

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After filling the oil, tread the pedal to run the machine. Closely observe the circulating condition of oil through the Top Lens⑤.

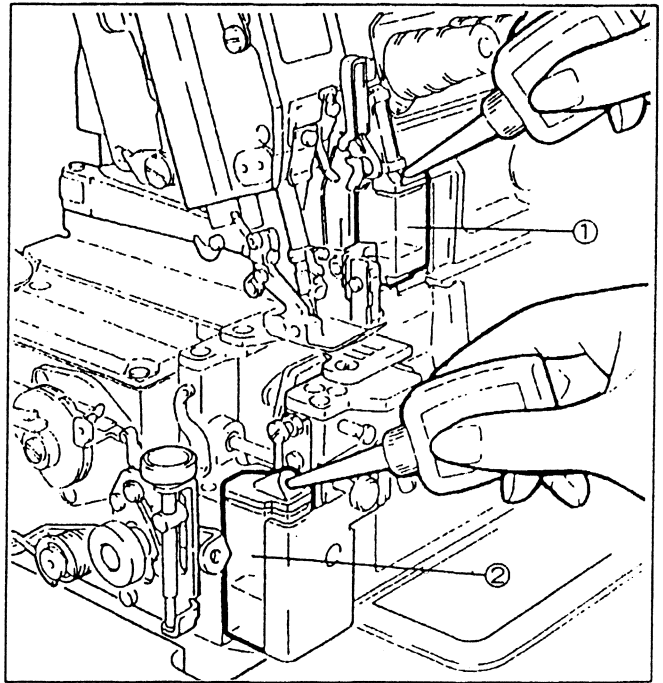




## Filling the HR Device with Silicon Oil

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Fill the HR device①,② with silicon oil before it is too low in order to prevent needle thread breakage and fabric damage.



## Oil Replacement Schedule

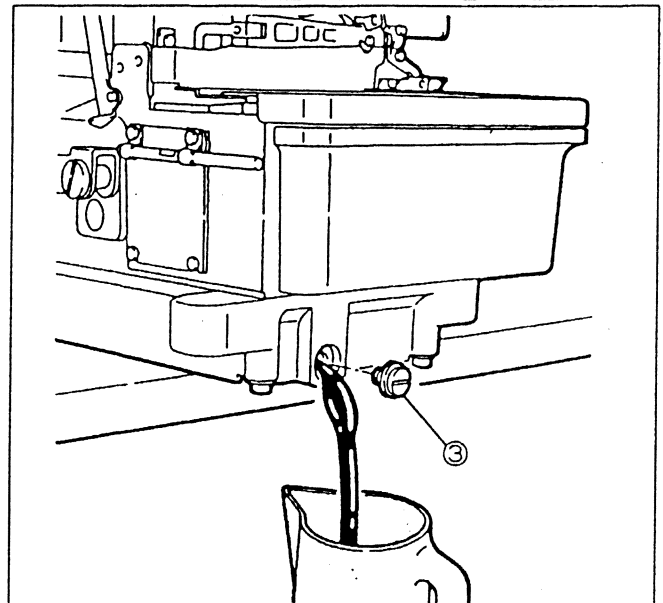
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Replace the oil one month after the first use and every six months thereafter.

## Draining the Oil

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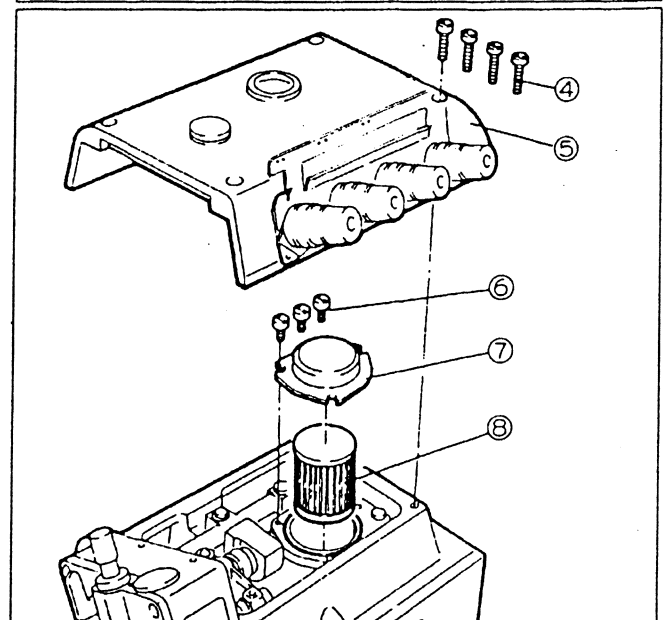
Remove the Plug Screw③ and drain the oil. After draining, restore the Plug Screw.



## Replacing the Oil Filter

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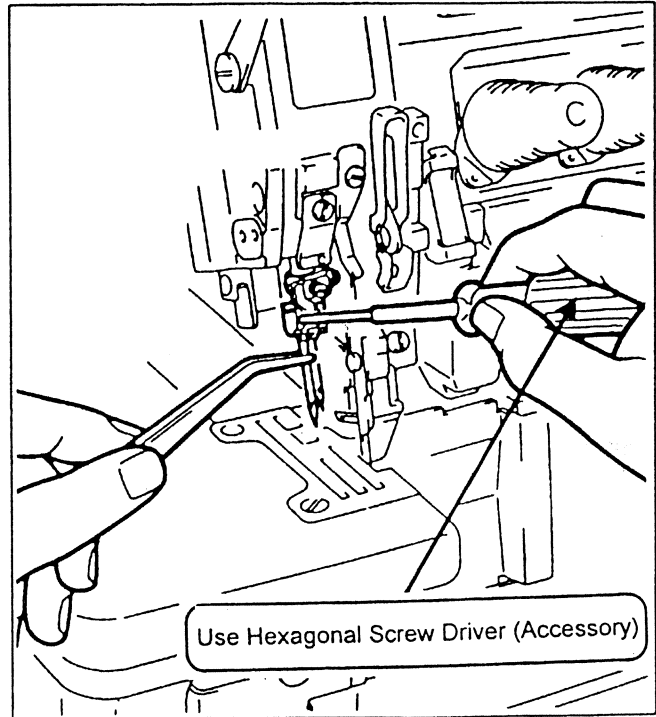
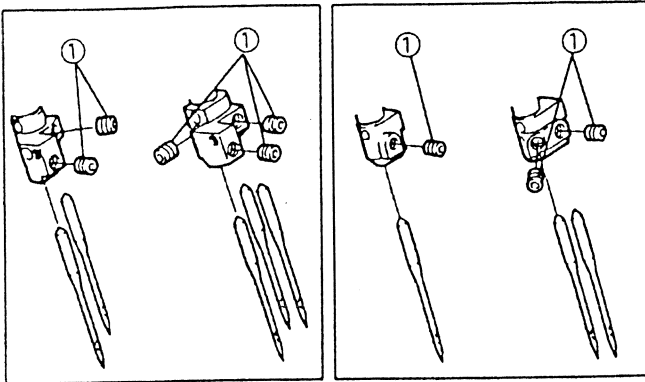
When Oil Filter⑧ is clogged with dust, proper lubrication is not possible. Generally check Oil Filter once every six months. Remove the parts④~⑧ to inspect. If the Oil Filter is clogged, renew it.



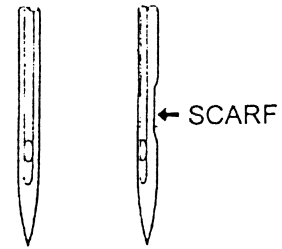
## Needle Replacement

When replacing Needles, loosen Screws ①, but do not remove them. The needle should be securely fixed with its scarf facing rightly backward, and its top end closed against the end of needle clamp hole.

For 694 / 694 / 695 Series  
1, 2 and 3 needle formats.



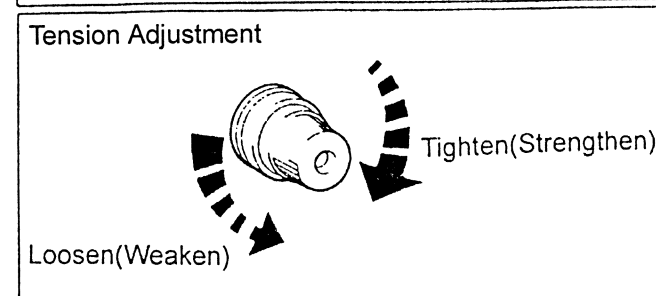
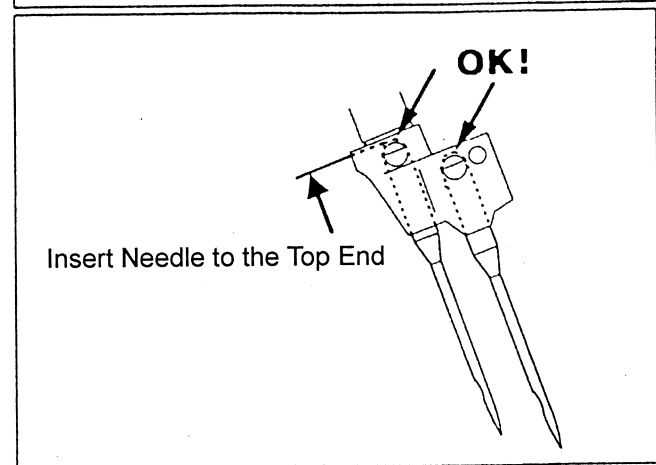
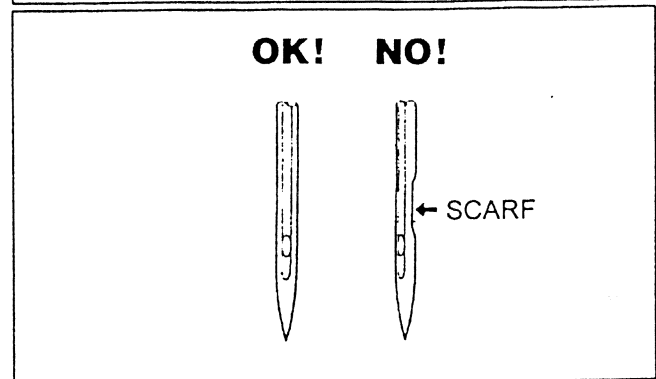
**OK! NO!**



## Adjusting Thread Tension

For optimal stitch formation, turn the Nut clockwise to increase tension of the thread, and counterclockwise to decrease it.

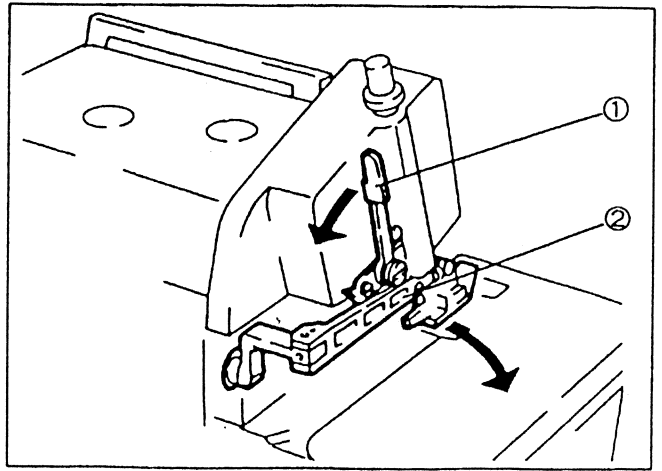
Within the acceptable range of good stitch formation, it is recommended that you set the tension at the weaker end of the range.



## Opening and Closing Presser Arm

To open the Presser Arm, turn Handwheel to bring the needle to the highest position, press Latch Lever ① downward, and disengage the Presser Arm ②.

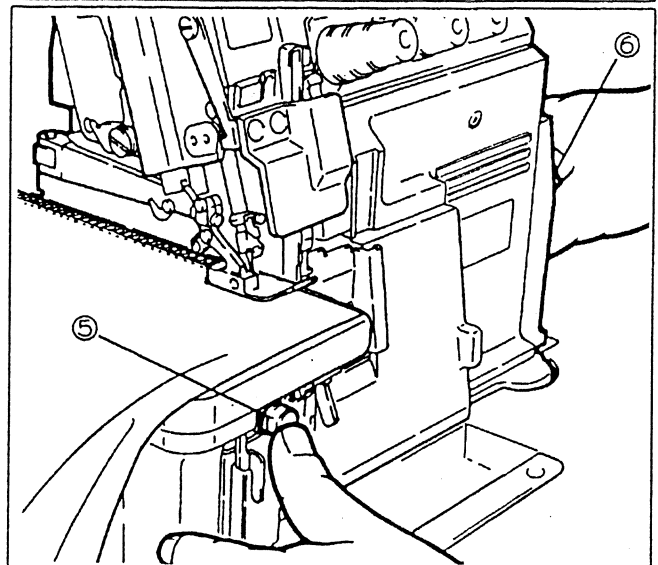
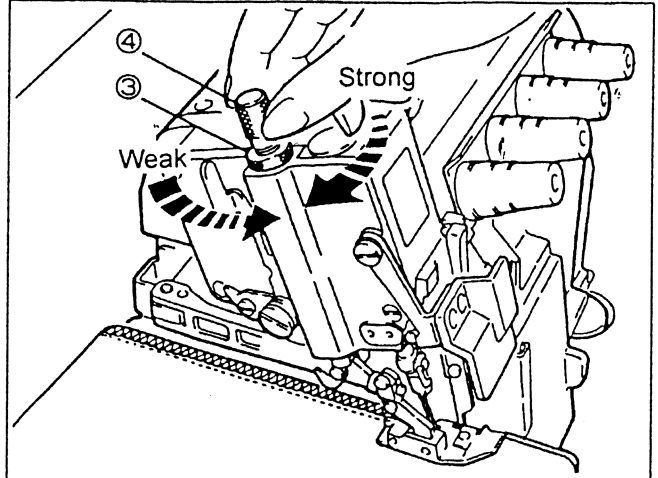
To close the Presser Arm, turn Handwheel to bring the needle to the highest position, press Latch Lever ① downward, and engage the Presser Arm ② into the groove of Presser Bar.



## Adjusting the Pressure of the Presser Foot

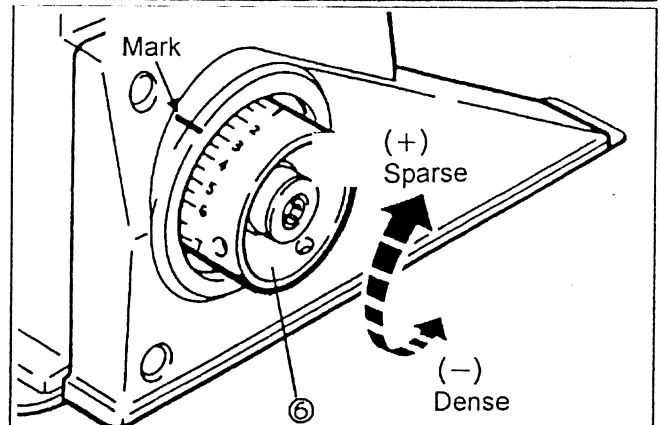
To adjust the pressure of Presser Foot, loosen Lock Nut ③, then turn the Adjusting Screw ④. Tighten the Lock Nut after the adjustment.

Within the acceptable range of good stitch formation, it is recommended that you set the pressure of the Presser Foot as weak as possible.



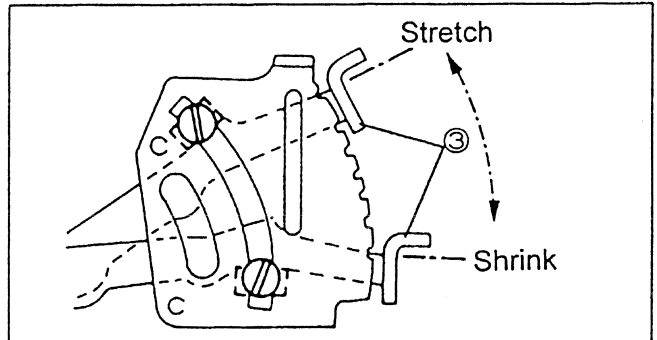
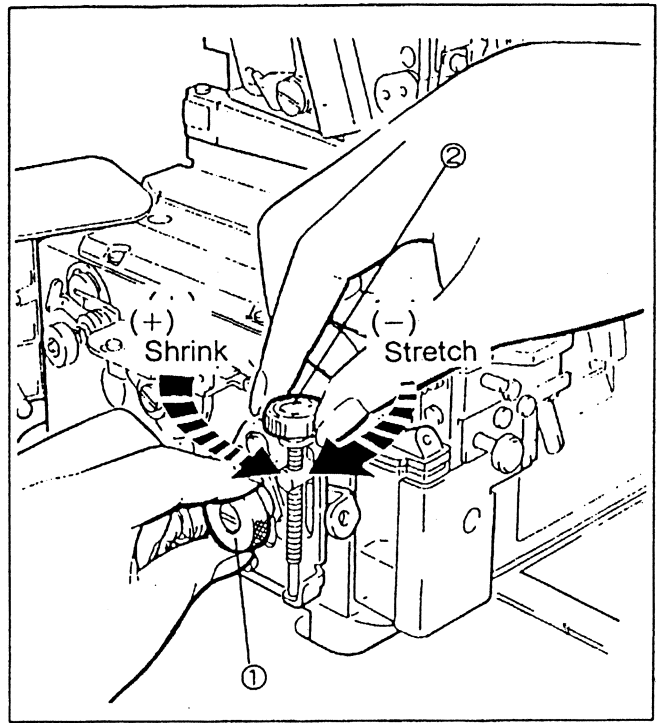
## Adjusting Stitch Length

Press Push Button ⑤ lightly and at the same time turn Handwheel ⑥ until you feel the Push Button click into a slot and easily depress. While holding the button in, turn the Handwheel in (+) direction to increase the stitch length and in (-) direction to decrease the stitch length.



## Adjusting the Differential Feed

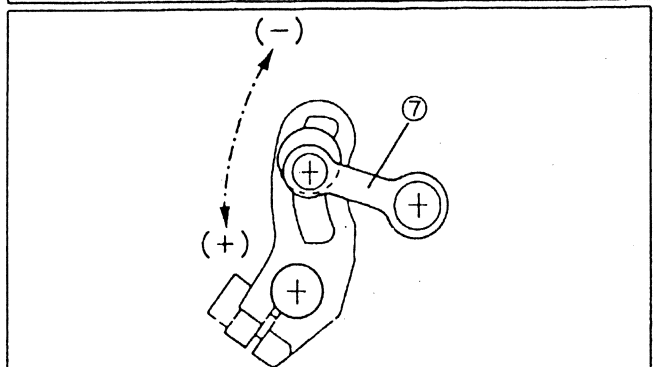
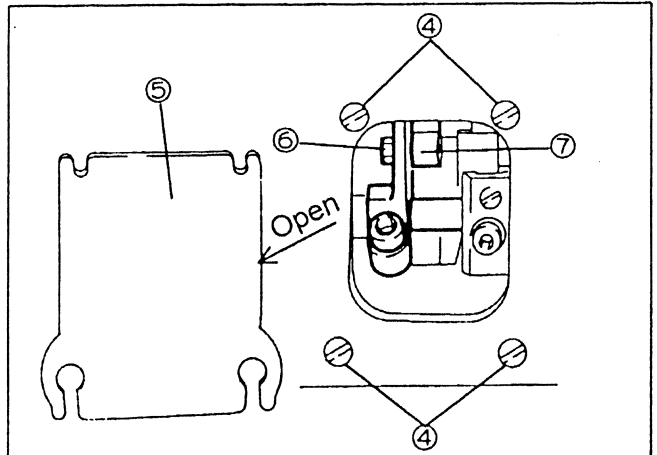
1. Loosen Nut<sup>①</sup> and turn Knob<sup>②</sup> in:  
(+) direction (Plate Lever<sup>③</sup> turn downward) to increase the differential feed ratio, so the sewing fabric will be shrunk.  
(-) direction (Plate Lever<sup>③</sup> turn upward) to decrease the differential feed ratio, so the sewing fabric will be stretched.
2. Tighten Nut<sup>①</sup> after the adjustment.



## Adjusting the Range of the Differential Feed Ratio

(Changing movement of main feed dog)

1. Loosen Screws<sup>④</sup> and open Rear Cover<sup>⑤</sup> on the back of the machine.
2. Loosen Nut<sup>⑥</sup> and move Link<sup>⑦</sup> at the up-down position to make the adjustment.
3. Restore Rear Cover<sup>⑤</sup> with Screws<sup>④</sup> after the adjustment.



## Replacing the Upper Knife

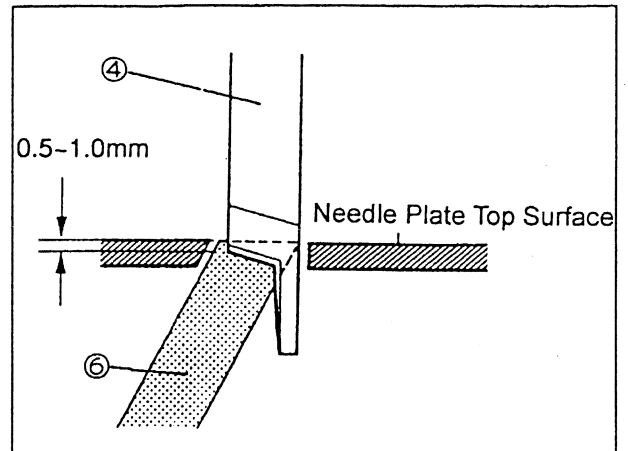
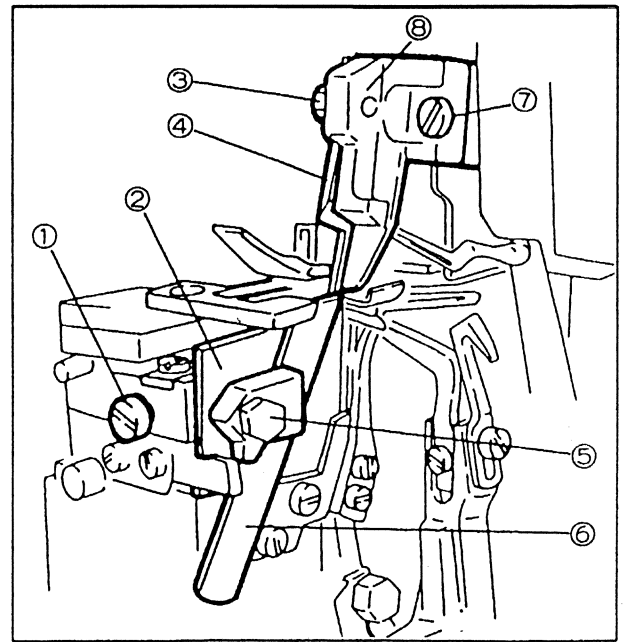
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1. Loosen Screw①. Push Lower Knife Holder② to the left side and temporarily secure it with Screw①.

2. Remove Screw③ to replace Upper Knife④. Turn handwheel to descend Upper Knife Holder⑧ to the lowest position. Thereon make the overlap of Upper and Lower Knife 0.5~1.0mm.

3. Let the middle point A of the cutting edge of Upper Knife④ meets that of the Lower Knife⑥. Then loosen Screw①. Retighten Screw① after making sure there is no clearance between the two cutting edges.

4. Put a thread between the two cutting edges and rotate the handwheel to observe the cutting effect.



## Replacing the Lower Knife

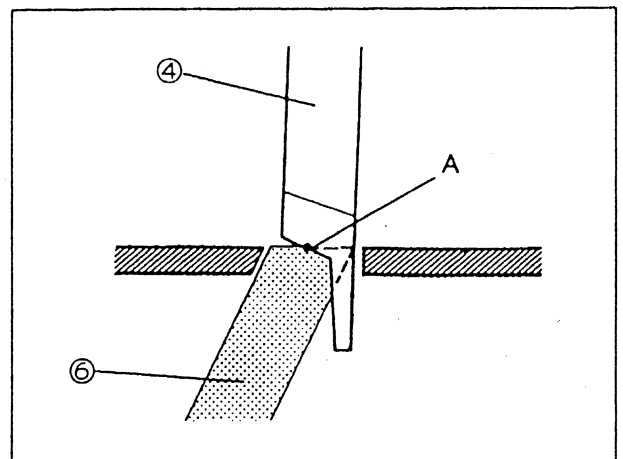
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The cutting edge of Lower Knife⑥ should be kept at the same level with the top surface of the needle plate. Refer to steps: 1, 3, and 4 for the replacement.

## Adjusting the Cutting Width

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Perform step 1. Loosen Screw⑦ and move Upper Knife Holder⑧ to the required cutting width. Refer to steps: 3 and 4 to fix Upper and Lower Knives.



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**Instruction Book for Model 694/694/695 Series**

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