

CONSEW *Since 1898*®

CONSOLIDATED SEWING MACHINE CORP.

└ INDUSTRIAL SEWING & CUTTING EQUIPMENT

OPERATING INSTRUCTIONS

289RB-HLP-2

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└ INDUSTRIAL SEWING & CUTTING EQUIPMENT

400 VETERANS BLVD, CARLSTADT, NJ 07072

Consew 289RB-HLP-2: Single needle, high post, compound feed for medium thickness materials

Notice before operation:

- 1) Lubricate before turning on the machine;
- 2) Check Voltage;
- 3) After installation, check the spinning direction when you try for the first time.
* Turn on the machine, keep at low speed, the hand wheel should spin anti-clockwise.
- 4) For the first month of usage, keep the speed at 1000 rotations / minute.

Operation Caution:

- 1) Keep hands away from Needle;
- 2) Keep things away from Machine Head, V-belt, Bobbin Winder and Motor;
- 3) Do not remove the finger ring, belt cover or any other protection device;
- 4) Do not move the V-belt unless the machine has turned off and the motor has completely stopped.

Specifications:

Purpose: leather bags, shoes and materials of medium thickness

Max. Speed: 1600 rotations / minute

Max. Stitch: forward -- 6mm; backward -- 6mm

Needle Size: DPX17#16 – 23 (standard # 22)

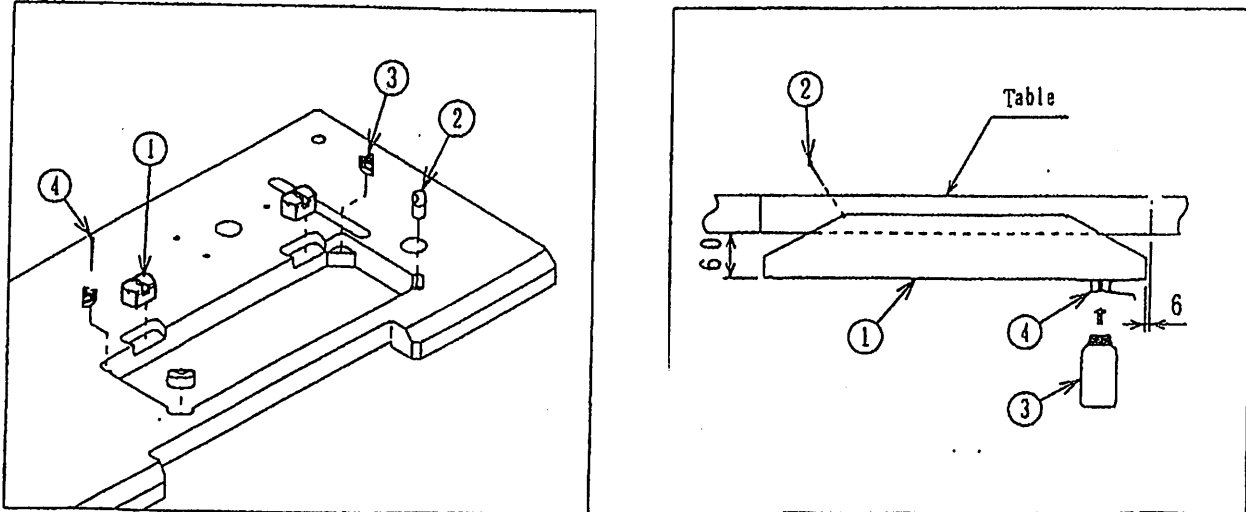
Presser Foot Lift Height: Hand lifter amount 8mm ; Knee lifter amount 12mm.

Lubricant: white sewing machine oil

1. Installation (figure 1)

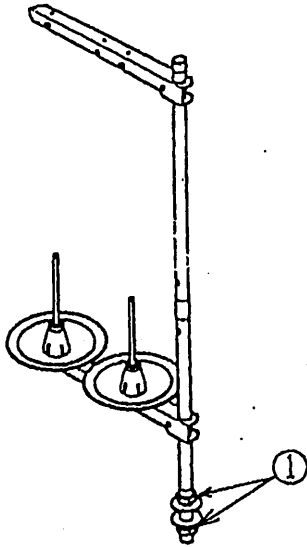
- (1) Vibration Proof Installation: Using nail (4) to install rubbers (1), (2) and (3) on to table top.
- (2) Drip Pan Installation: Use a nail (2) to install drip pan into the table top and install the oil bottle (3) into oil bottle hole (4).

Figure 1:



2. Thread Stand (figure 2)

Figure 2



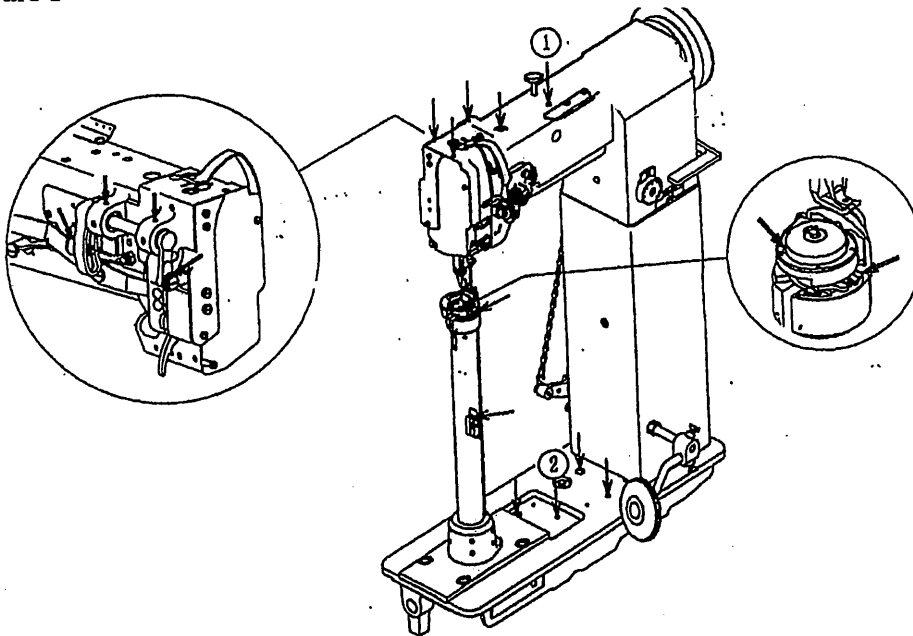
3. Oiling (figure 3)

Do not oil unless the machine is turned off and the motor has completely stopped.

- 1) During operation, add oil in these arrow indicated area properly.
- 2) Fill the oil in the holes (1) and (2). After the installation is completed, drop oil in each hole, wait 10 minutes so that oil will penetrate into all machine head parts. Then turn on the machine.

Lubricate the machine at least twice a day by adding 2-3 drops of oil into each lubricating hole.

Figure 3

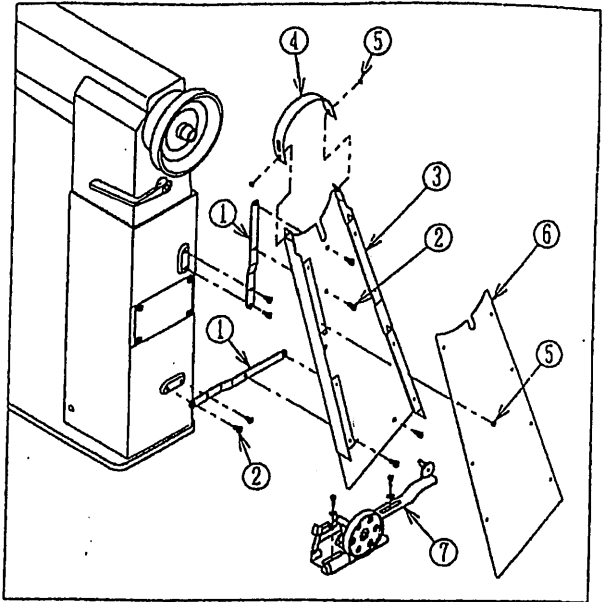


4. Belt Cover Installation

Make sure Bobbin Winder , Machine and Belt Cover do not contact with each other.

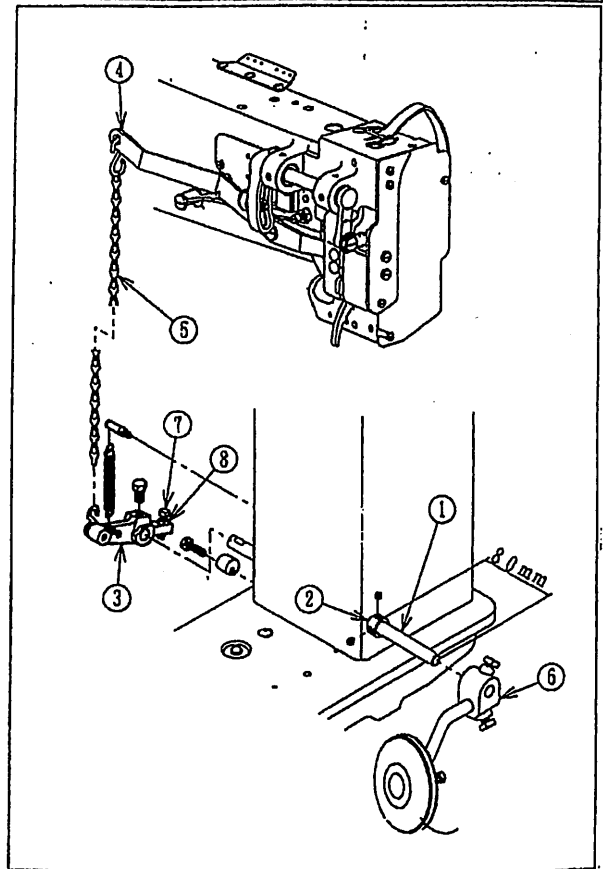
- 1) Connect belt cover support to the machine with screw (2).
- 2) Put belt cover (A)(3) on belt cover support with screw (2).
- 3) Put belt cover(B)(4) on top of belt cover (A)(3) with screw(5)
- 4) Put belt cover(C) (6) on top of belt cover (3) with screw (5).
- 5) Before installing bobbin winder with wooden screws, place bobbin winder properly between belt covers so as to avoid its direct contact with machine or belt covers.

Figures 4 and 5



5. Shaft Installation (Figure 5)

- 1) The length of rock shaft (1) that sticks outside should be 80mm. At this position, tighten screw(2).
- 2) Connect parts (1) , (2) and (3) and make sure they are linked very tight so that part rock shaft (1) should not wiggle at all.
- 3) Connect link (5) with connection lever (3) and (4).
- 4) Connect rock shaft (1) with Knee Lifter Complete (6)
- 5) By adjusting the screw (7), the link (5) could be moved up and down so that the allowance of one Knee Lifter Stroke could reach 14mm or 15mm. Tighten screw (8) after adjustment is finished.



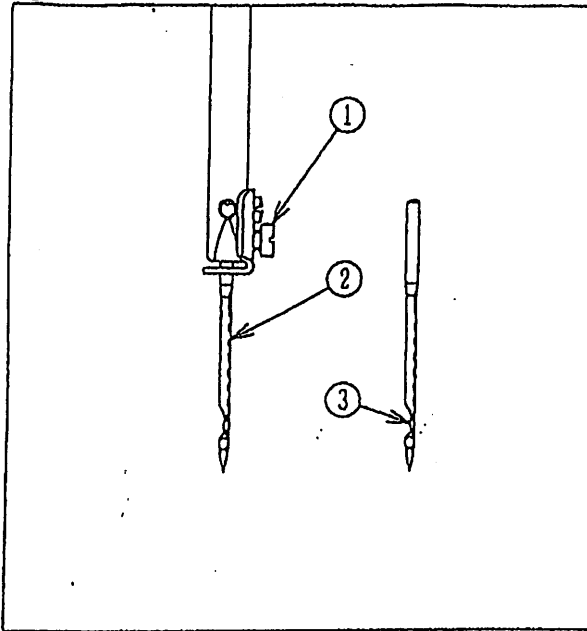
6. Needle Installation (Figure 6)

Nothing should be done until the machine is turned off and motor has completely stopped.

Needle System: DPX17

- 1) Turn the upper hand wheel so that needle reaches the highest position
- 2) Unscrew screw (1), insert needle (2) to the end until it can't move upward; the groove (3) should face left hand.
- 3) Tighten screw (1).

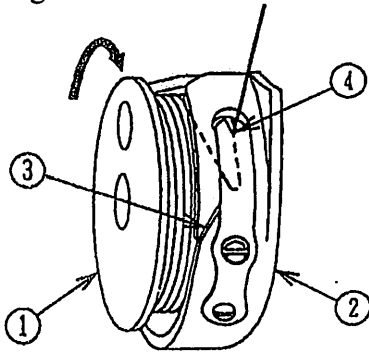
Figure 6



7. Bobbin Case Installation (Figure 7)

- 1) Put Bobbin (1) into Case (2)
 - 2) Pull thread through wiring space (groove) and bobbin case tension spring (4).
- * Note : As illustrated in the drawing, Bobbin should turn in the arrow direction while the thread is pulled.

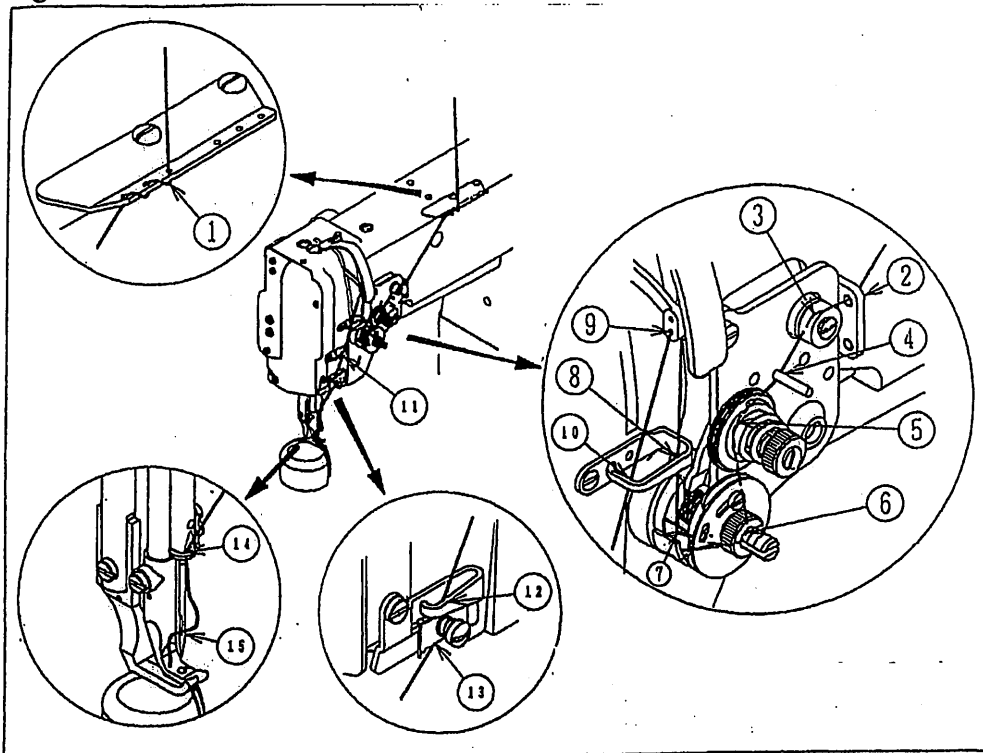
Figure 7



8. Face thread (Figure 8)

Nothing is to be done unless the machine is turned off and motor has stopped completely.
Reference the drawing.

Figure 8



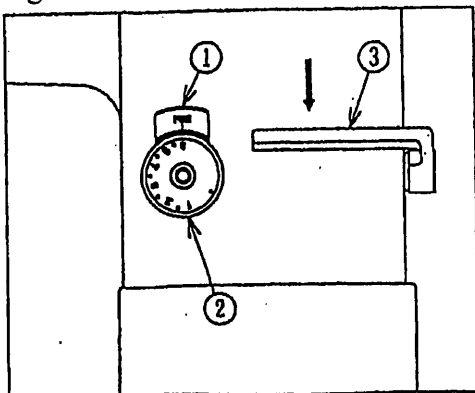
9. Adjustment of Stitch Length (Figure 9)

Press down part (1), turn part (2) feed regulating dial anti-clockwise (or clockwise) to the number you choose to the line in part (1), then release part (1).

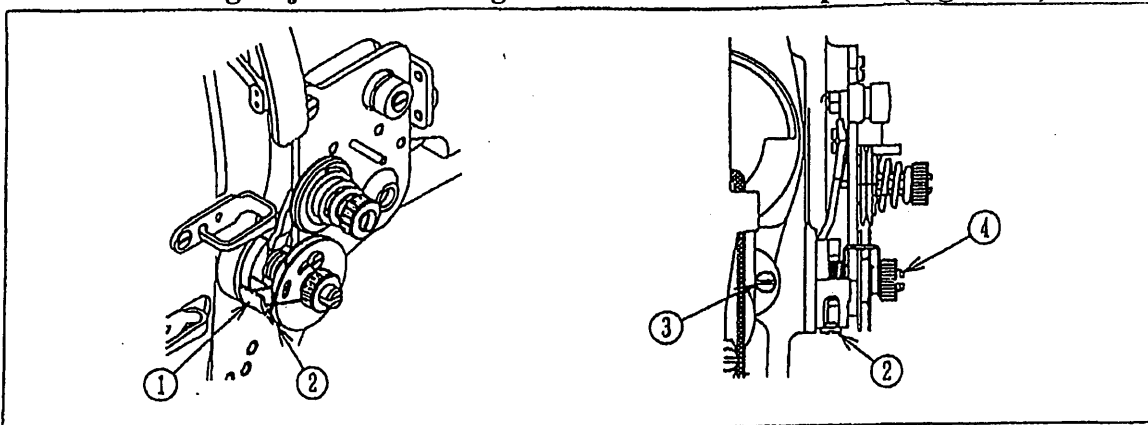
* Reverse feeding

- 1) Press down Reverse Lever (3)
- 2) The machine could stitch backwardly.
- 3) Release part (3), it resumes forward feeding and stitching state.

Figure 9



10. Threading Adjustment through Thread Tension Complete (Figure 10)



Nothing is to be done unless the machine is turned off and motor has completely stopped.

* To Adjust the Stroke Distance of Thread Tension Spring

- 1) When the screw (2) is loose, the Adjustment Plate (1) could be turned in both directions.
- 2) Turn tension complete (1) anti-clockwise to increase the sewing range.
- 3) Turn tension complete (1) clockwise to decrease the sewing range.

* To Adjust the Tension of Thread Take-up Spring

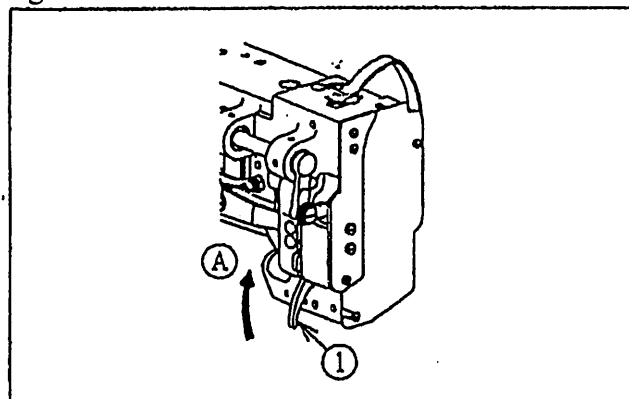
- 1) Loosen screw (3) , turn the axis (4) anti-clockwise to increase the tension of thread take up spring; turn the axis (4) clockwise to decrease the tension of thread take up spring.
- 2) After adjustment is done, tight screw (2).

11. Adjusting Presser Foot Lift

Mechanism (Figure 11)

- 1) Turn the Hand Presser Foot Lever (1) to direction (A) (anti-clockwise), presser foot lift amount could reach 8mm.
- 2) Using Knee Lifter, the presser foot lift amount could reach 14-15mm.

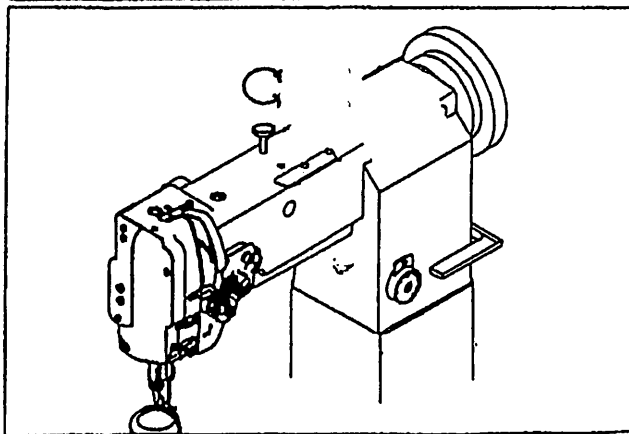
Figures 11 and 12



12. Adjusting the pressure of presser foot (Figure 12)

Turn the presser foot pressure bar to the right to increase the pressure of presser foot;

Turn the presser foot pressure bar to the left to decrease the pressure of presser foot.



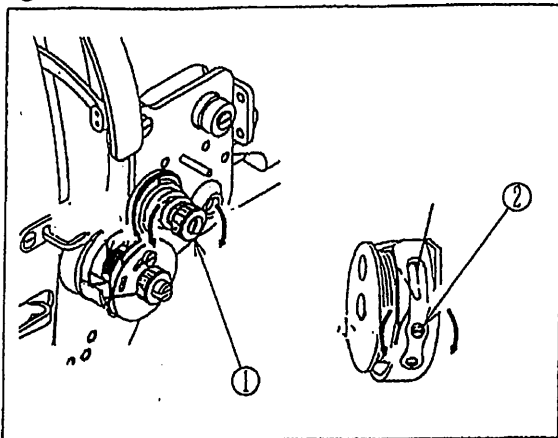
13. Adjusting thread tension (Figure 13)

Nothing is to be done until the machine is turned off and motor has completely stopped.

(1) Tension of face thread: Turn the tension stud (1) clockwise to increase thread tension; anti-clockwise to decrease.

(2) Tension of bottom thread: Turn the screw (2) on tension spring clockwise to increase the tension of bottom thread; anti-clockwise to decrease.

Figure 13



14. Adjustment of Bobbin Case Opener Lever (Figure 14)

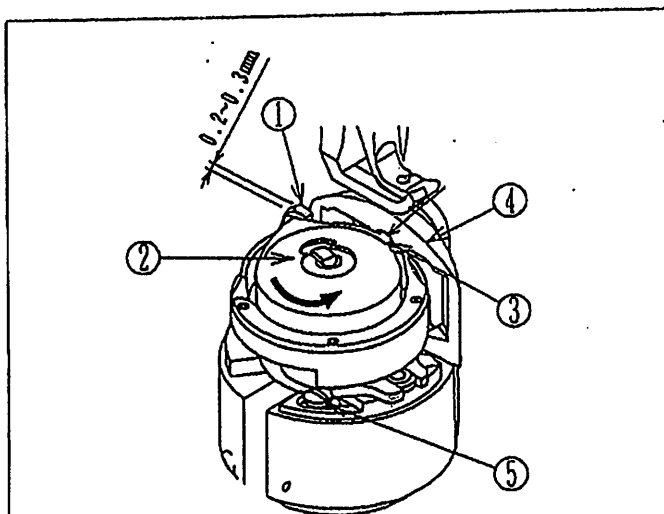
Nothing is to be done until the machine is turned off and motor has completely stopped.

(1) Use hand to turn head wheel so that the Bobbin Case Opener Lever (1) reaches the highest position.

(2) Make (3) face right at the center of needle plate (4). At the same time, hand turn bobbin case (2) anti-clockwise.

(3) Loosen screw (5), the space between bobbin case opener lever (1) and projecting part of bobbin case should be 0.2 -0.3 mm. Then tighten the screw (5).

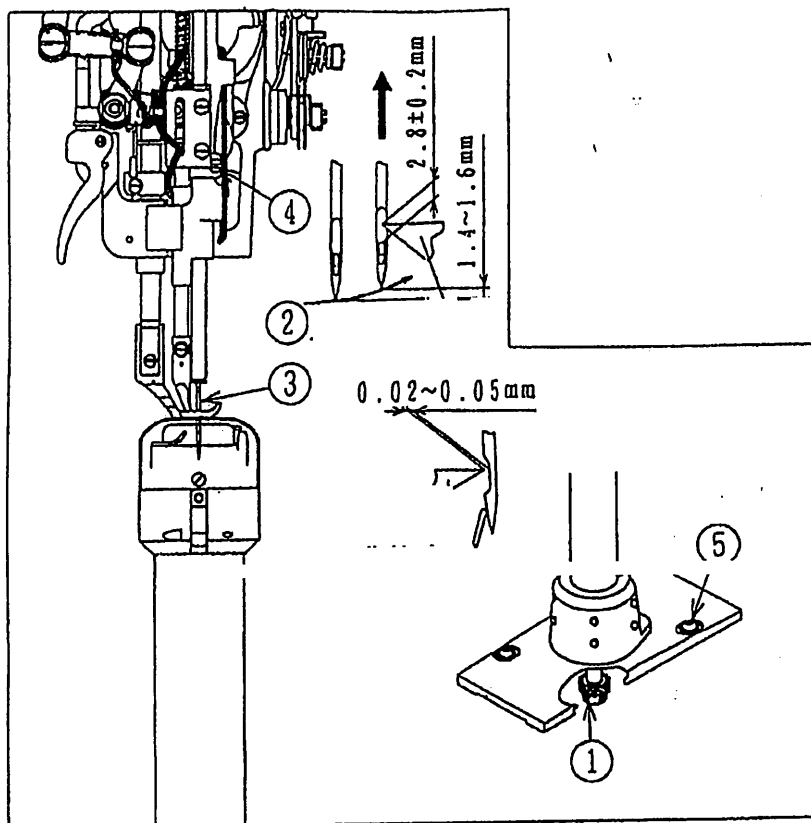
Figure 14



15. Adjusting needle and bobbin (Figure 15)

Nothing is to be done until the machine is turned off and motor has completely stopped.

- 1) Turn head wheel so that needle stays at the lowest position.
 - 2) Loosen 3 screws at area (1)
 - 3) Turn head wheel so that needle move up 1.4 – 1.6 mm from its lowest position.
 - 4) When bobbin case hook almost touch the (horizontal) center of the needle, adjust the distance between the top of the needle hole and the hook to 2.8 mm . Then tighten screw (4).
- * The distance between the needle and bobbin
- 5) Loosen screw (1); turn head wheel so that the needle moves up 1.4 -1.6 mm from its lowest position.
 - 6) Adjust the distance between the needle and hook to 0.02 - 0.05 mm . It could be done when 4 screws like (5) are loosened. Tighten screws after the adjustment is finished.
 - 7) Double check the positions of hook and needle center. Then tighten 3 screws in the area of (1).



16. Adjusting Needle Guard Position (Figure 16)

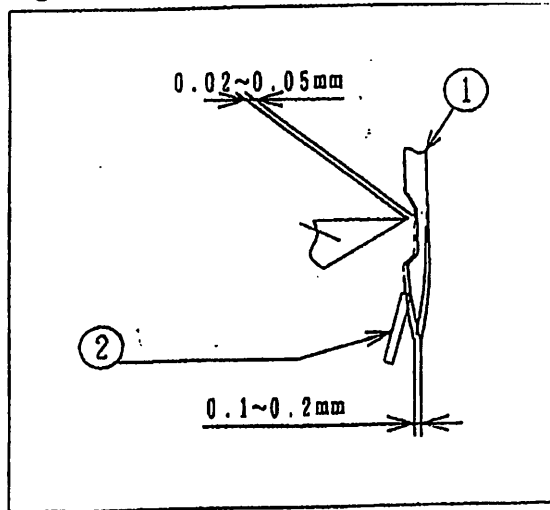
Nothing is to be done until the machine is turned off and motor has completely stopped.

* The positions of needle guard and bobbin case have to be checked before changing bobbin.

Move the needle guard to make it close to the tip of the needle so as to keep the distance between the needle guard and the curve part of the needle end to 0.1 - 0.2 mm.

* Using small screw driver to move needle guard's facing direction.

Figure 16



17. Adjusting of Presser Foot (Figure 17)

Nothing is to be done until the machine is turned off and motor has completely stopped.

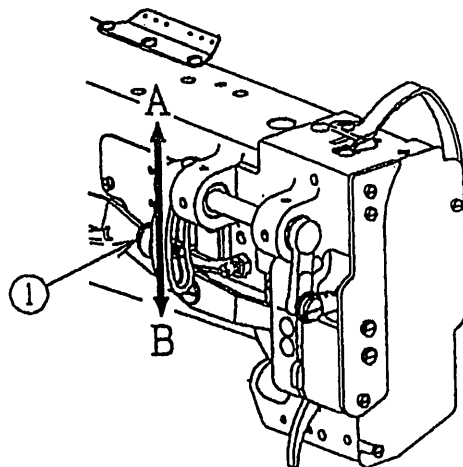
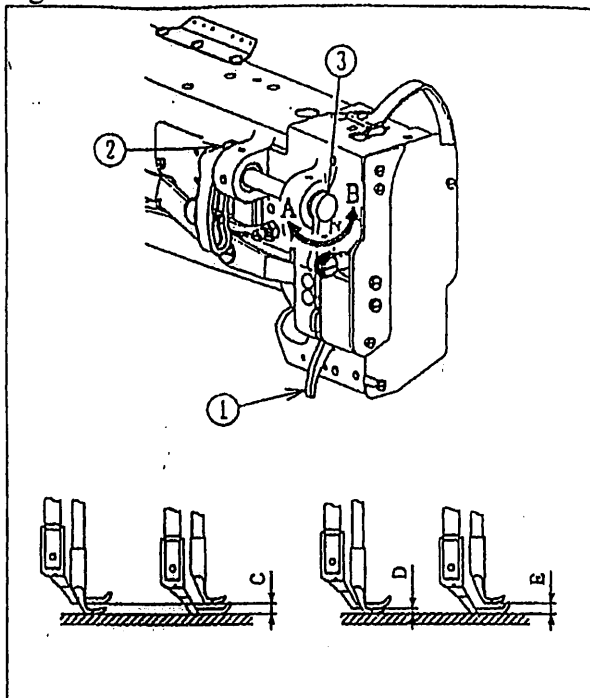
◇ Vertical Movements of outside foot and inside foot. (Figure 17)

- 1) The strokes of inside foot and outside foot should be equal.
- 2) But they should be adjusted according to different materials.
- 3) For Example, when the material is very smooth, the stroke of inside foot should be adjusted to be a bigger size than that of outside foot for the better stitch effect in the following steps:
 1. Hand turn the head wheel so that the outside foot reaches its lowest position.
 2. Put down the hand lifter lever (1).
 3. Loosen screw (2)
 4. Move Lifting Rock Shaft (3) to the left (A direction) :when the stroke of outside foot is changed to “ D ” position, the stroke of inside foot is changed to “ C ”.
 5. Accordingly, Move Lifting Rock Shaft (3) to the right (B direction) : the stroke of inside foot is changed closely to “C” when the inside foot alone touches the needle plate; So is the outside foot.
 6. Tighten the screw (2) after adjustment is finished.

◇ The height of inside foot and outside foot. (Figure 18)

- 1) When materials are elastic or multi-layers, the height of inside foot is to be changed for the better visual effect.
 1. Loosen screw (1)
 2. Move Lifting Eccentric Connection up (A direction), the height of presser foot would be increased.
 3. Move Lifting Eccentric Connection down (B direction), the height of presser foot would be decreased.
 4. Tighten the screw (1) after adjustment is finished.

Figures 17 and 18

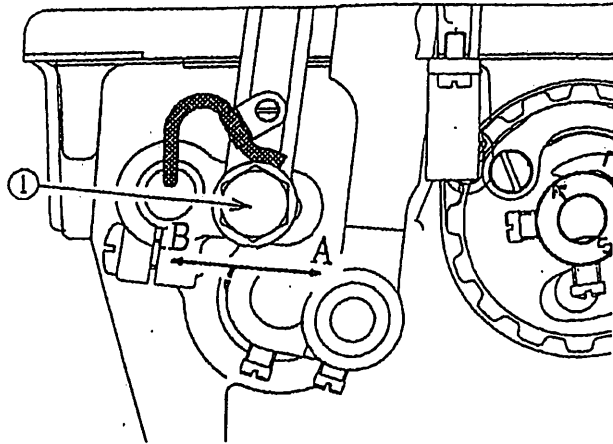


18. Differential Feeding Movement of Needle Bar.

Nothing is to be done until the machine is turned off and motor has completely stopped.

- 1) Loosen screw (1) and move it to "A" direction to increase needle bar stroke, causing feeding dog changed accordingly.
- 2) Vise versa in "B" direction.

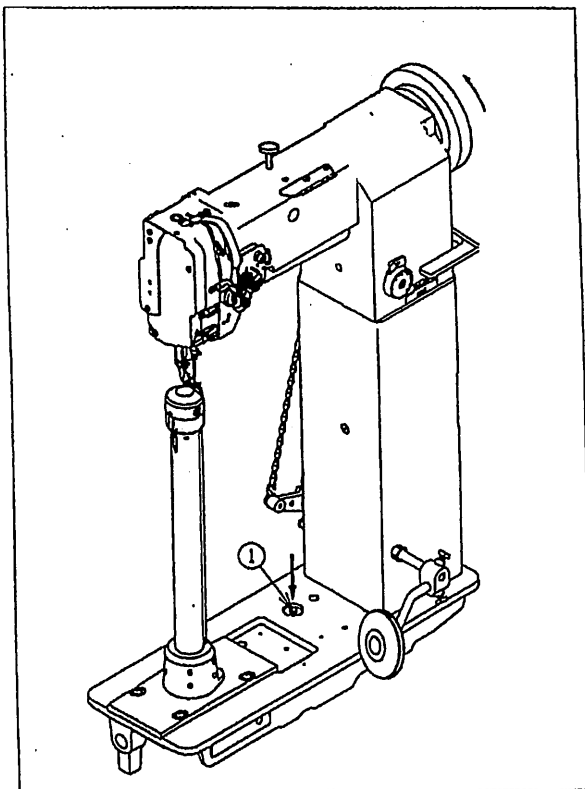
* The needle must go through the center of feed dog's eyelet before this adjustment.



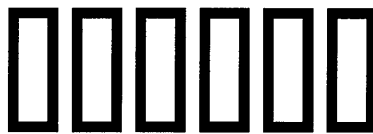
19. Connecting with clutch again

Nothing is to be done until the machine is turned off and motor has completely stopped.

- 1) Clean thread attached to bobbin case. No use of sharp tool.
- 2) Press down the button (1) and slowly turn the head wheel backward so that the clutch will be connected again.



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