

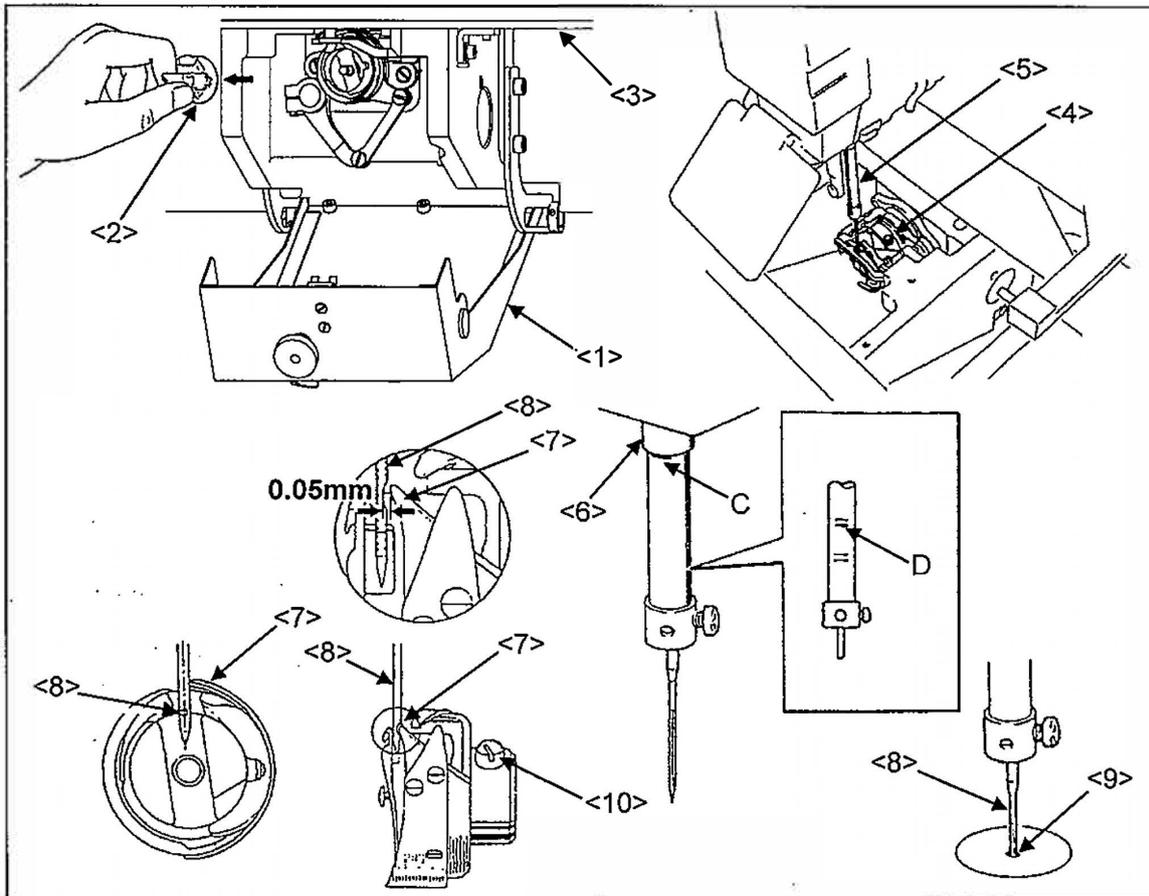
## Adjustment of the position between the needle and the rotating hook

- (1) Turn the power switch OFF.
- (2) Open the cylinder cover (No.1).
- (3) Remove the bobbin case (No.2).
- (4) Remove the sliding plate (No.3).
- (5) Loosen the hook set screws (No.4).
- (6) Turn the sewing machine pulley by hand then, move up the needle bar (No.5) from the lowest position and stop it at the position (No.6) where the needle bar timing mark C is matched to the needle bar bushing bottom line.

**NOTE** If the needle class is DPX5, match the needle bar timing mark D to the needle bar bushing bottom line.

- (7) Turn the hook by hand and stop it at the position where the hook point (No.7) meets with the center line of the needle (No.8).
- (8) Move the hook by hand and adjust the clearance between the hook point and the needle to be about 0.05 mm.
- (9) Hold the hook and tighten the hook set screws (No.10) securely.
- (10) After the adjustment, put the sliding plate (No.3) and bobbin case (No.2) back to the original locations and close the cylinder cover (No.1).

**NOTE** When put the sliding plate (No.3) back on the sewing machine, in order for the needle (No.9) to come into the right center of the needle hole of the needle plate (No.10), make sure that the needle plate hole center matches with the needle point then, tighten the set screws securely.



- <1>: Cylinder cover <2>: Bobbin case <3>: Sliding plate <4>: Hook set screw <5>: Needle bar  
 <6>: Lowest position of needle bar <7>: Hook point <8>: Needle <9>: Needle hole <10>: Set screw