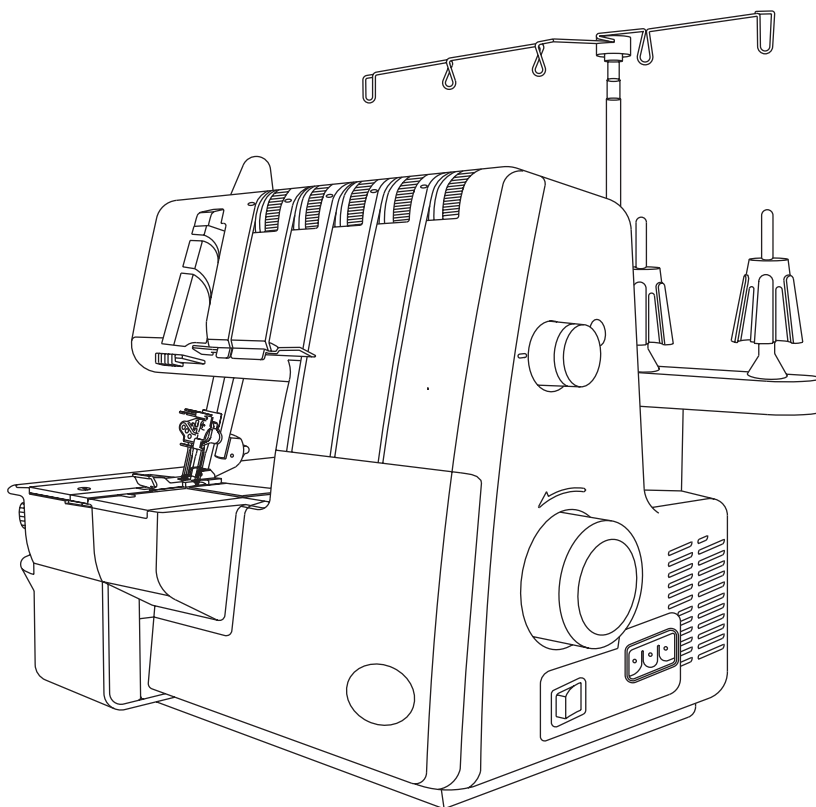


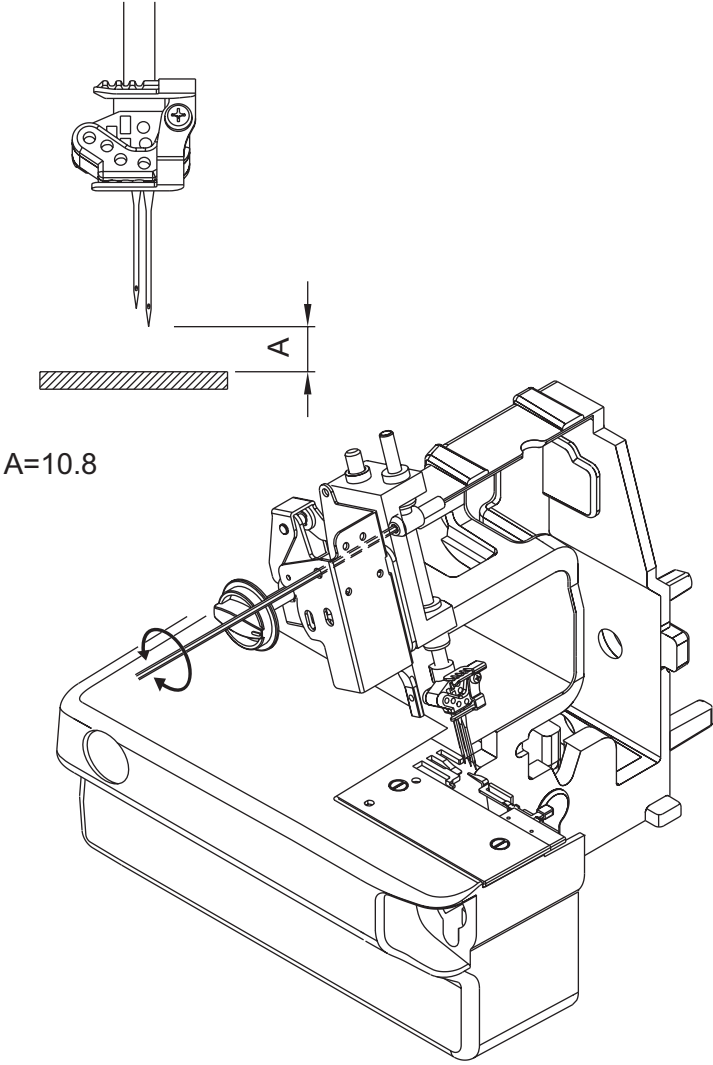
Merrylock®

3000CL

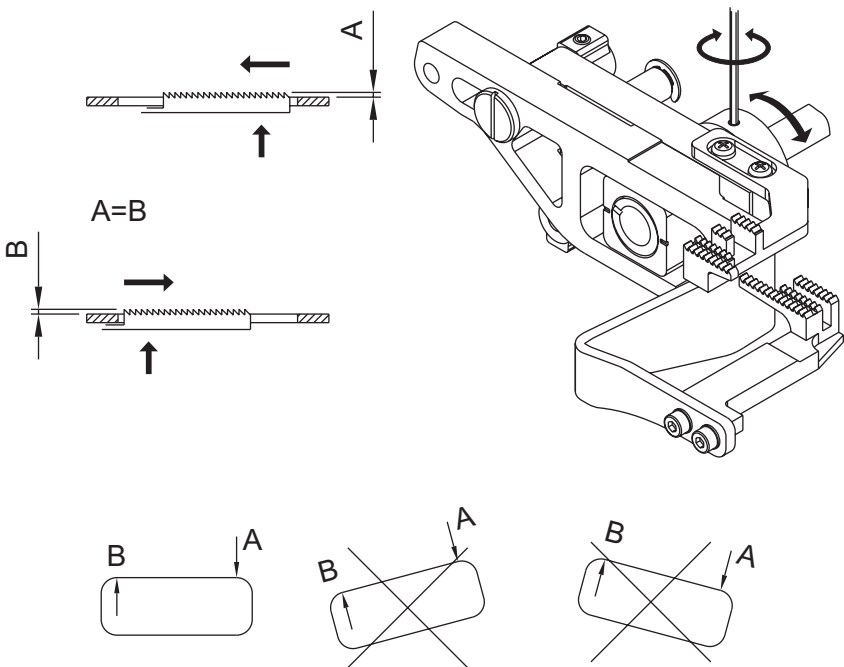
Service Manual



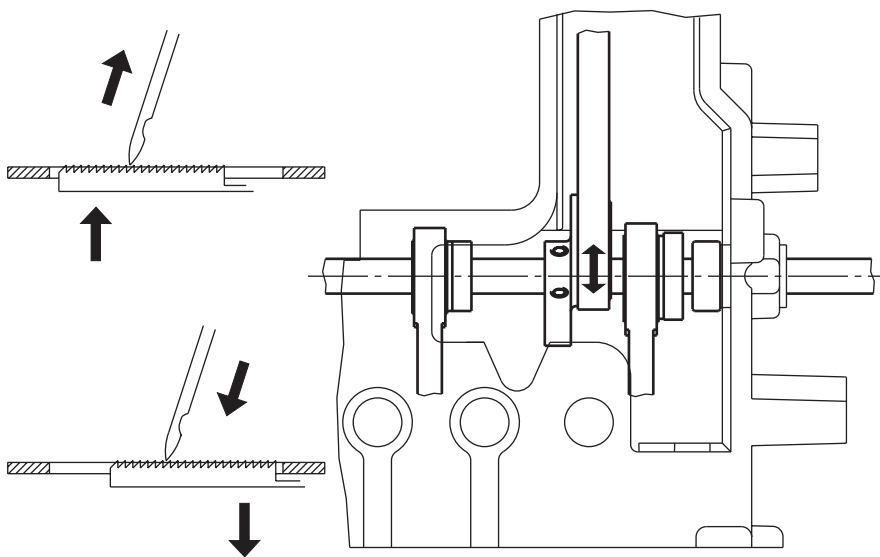
1. HEIGHT OF THE NEEDLE BAR.



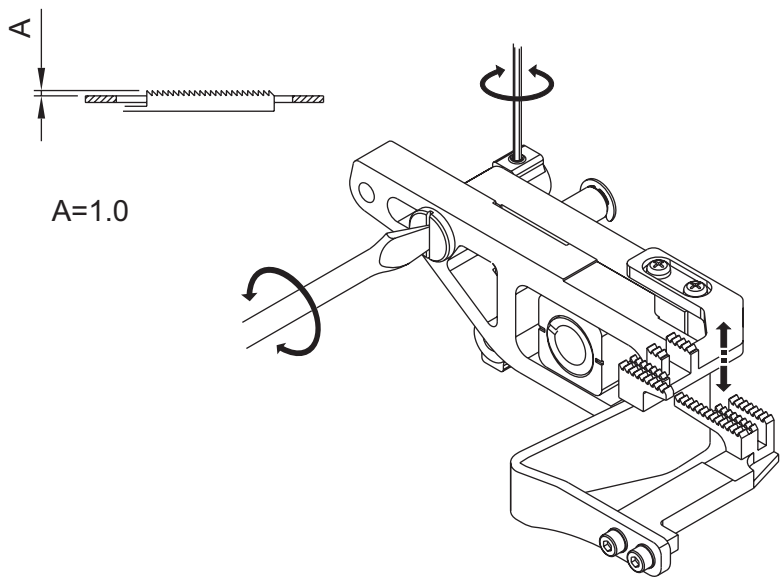
2. ADJUSTMENT OF THE FEED DOG LIFT.



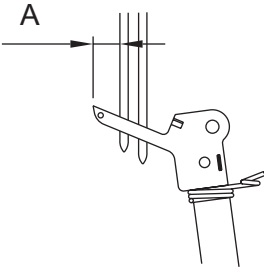
3. ADJUSTMENT OF THE NEEDLE BAR IN RELATION TO THE FEED DOG SHIFT.



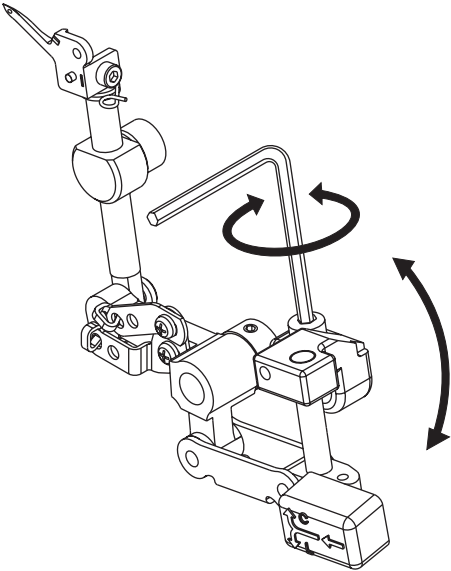
4. HEIGHT OF THE FEED DOG.



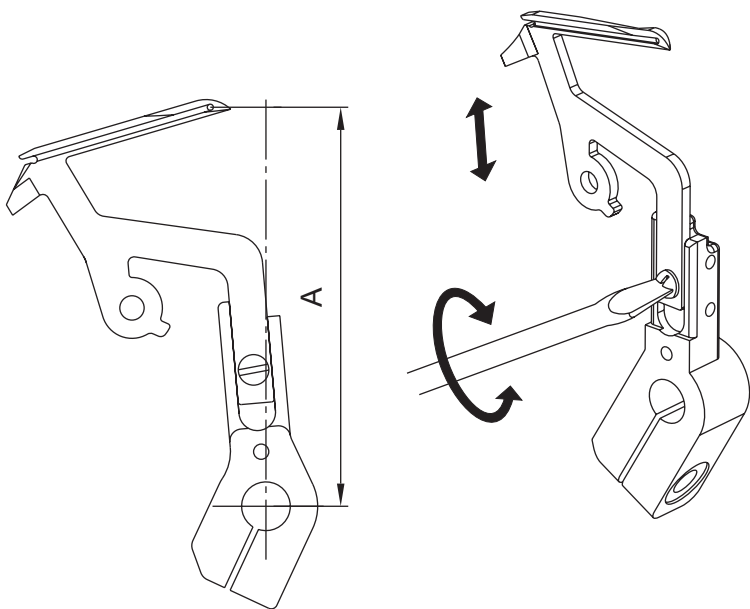
5. PROJECTION OF THE UPPER LOOPER.



A=4.6

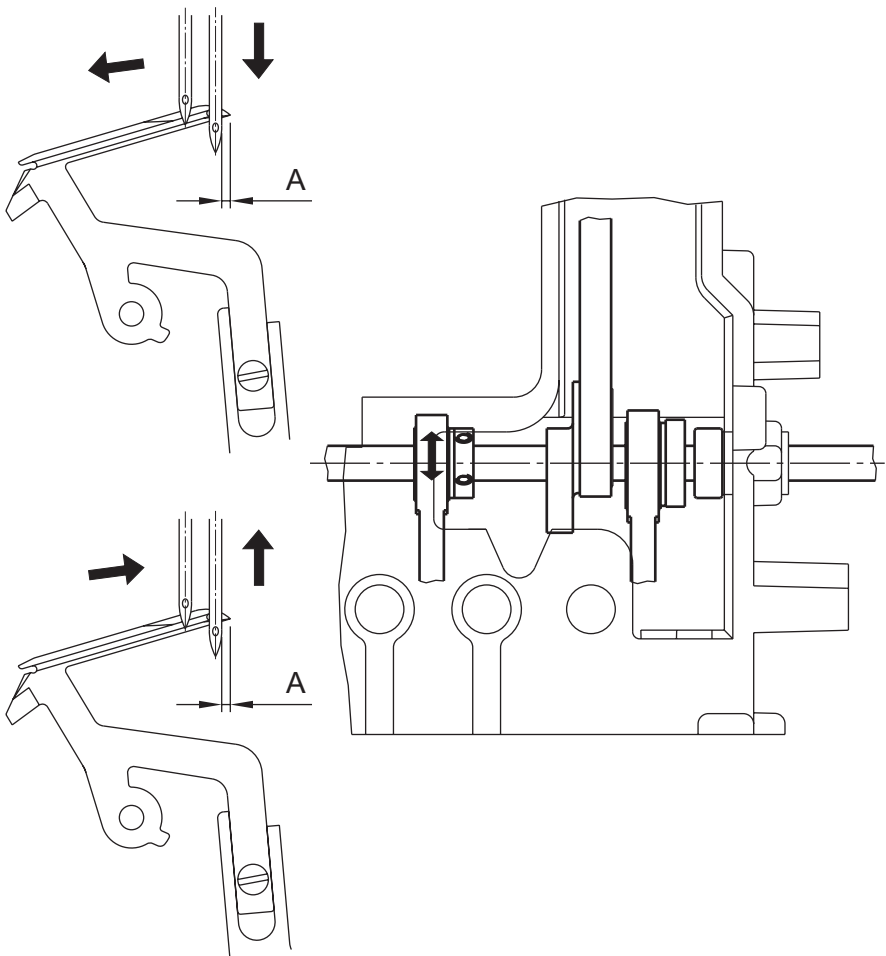


6. RADIUS OF THE LOWER LOOPER.

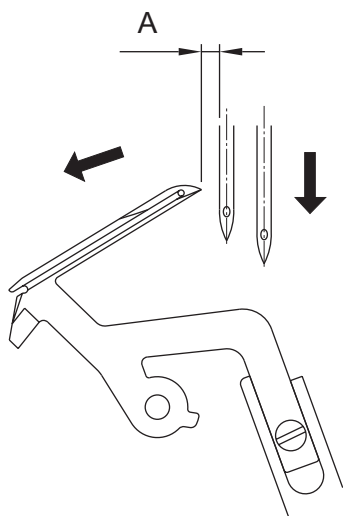


$A=65.3$

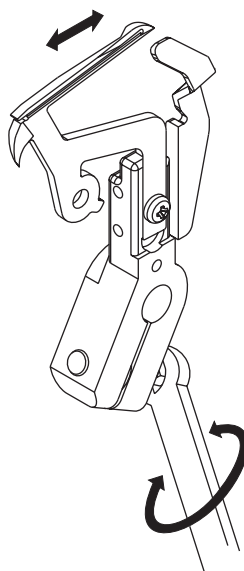
7. ADJUSTMENT OF THE STOPPING POINT OF THE LOWER
LOOPER (SYNCHRONIZATION) (USE CLAMP).



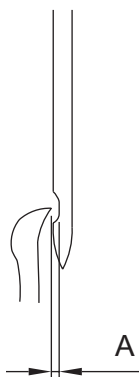
8. CLEARANCE BETWEEN LOWER LOOPER POINT, WHEN AT LEFT MOST POSITION, TO THE LEFT SIDE OF THE LEFT NEEDLE.



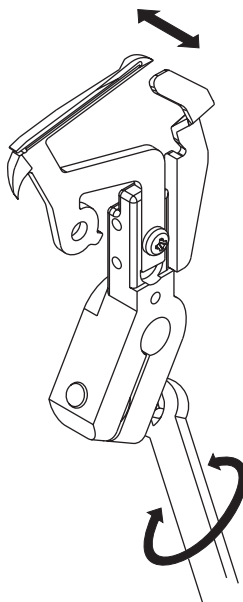
A=2.6



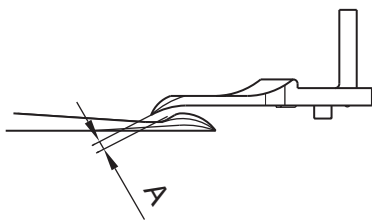
9. CLEARANCE BETWEEN LOWER LOOPER AND THE LEFT
AND THE RIGHT HAND NEEDLE.



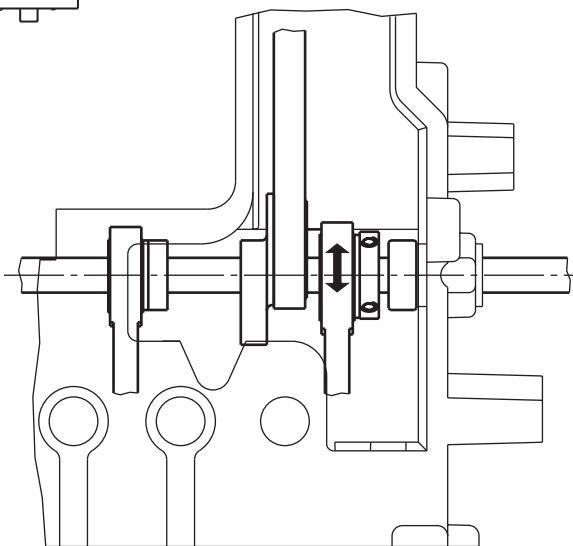
$A=0\sim0.03$



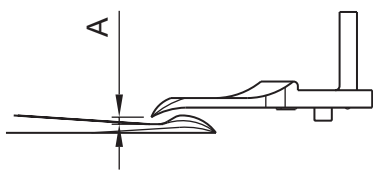
10. TIMING BETWEEN UPPER AND LOWER LOOPER.



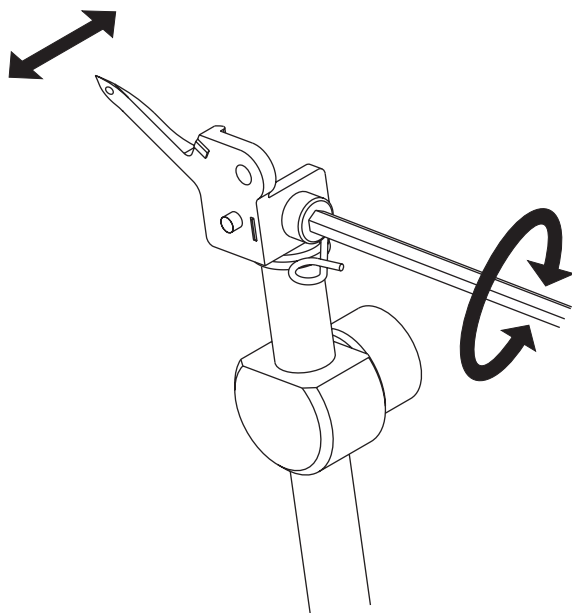
$$A=0.3\sim0.4$$



11. CLEARANCE BETWEEN LOWER LOOPER AND UPPER LOOPER.

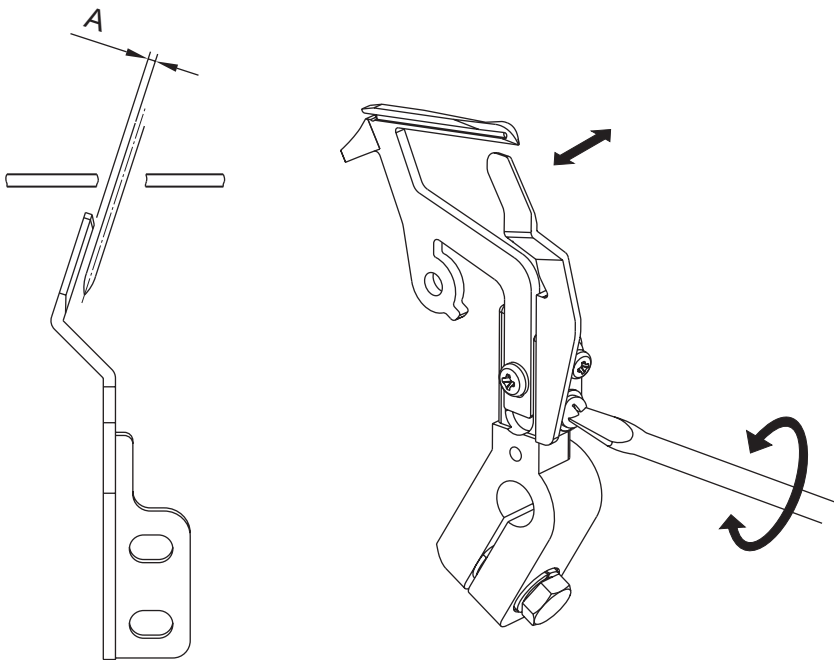


$A=0.1\sim0.2$

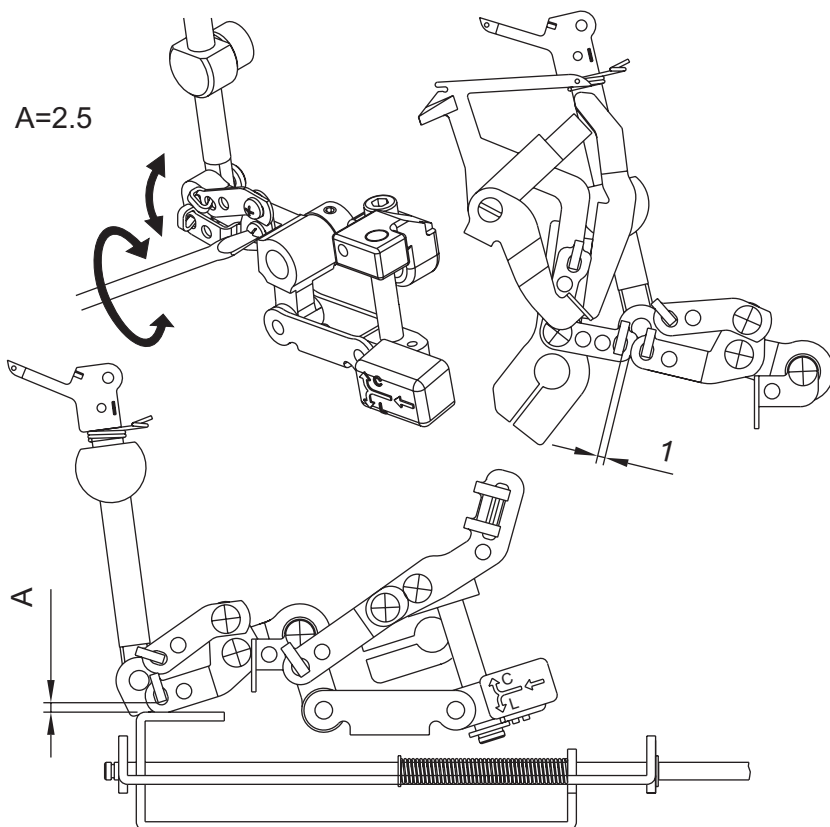


12. CLEARANCE BETWEEN NEEDLE AND FRONT NEEDLE GUARD.

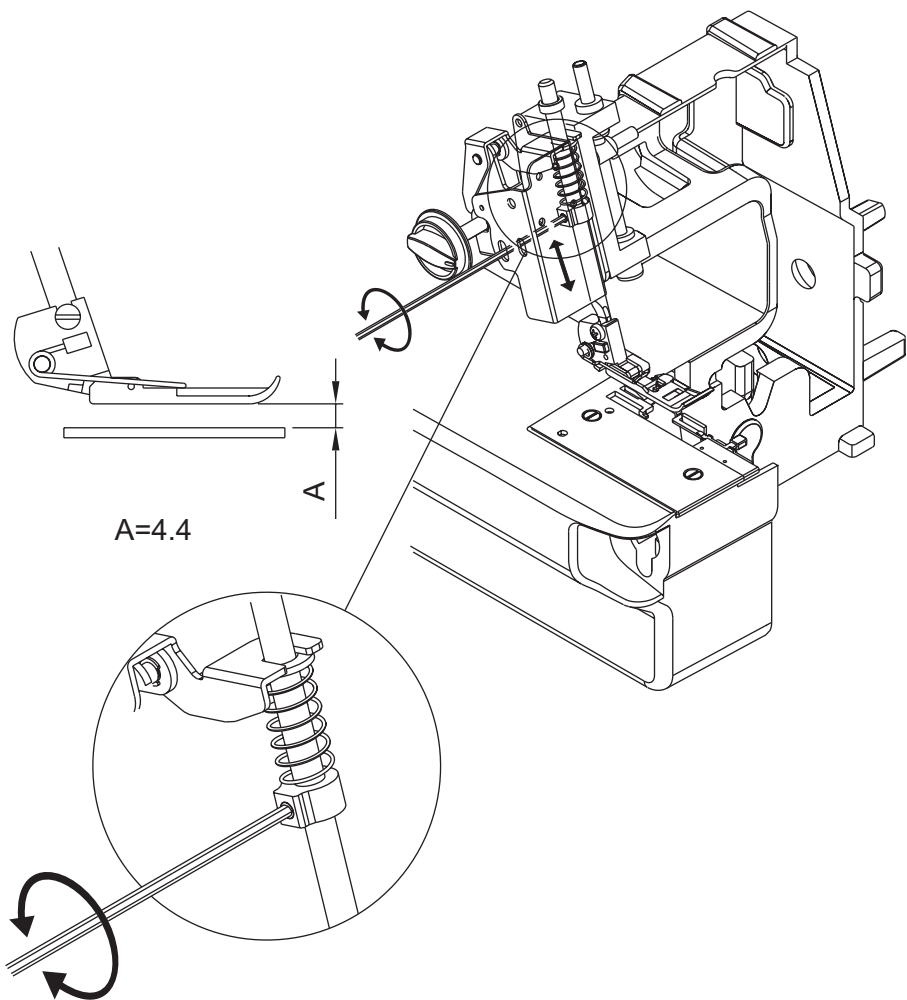
$A=0.03\sim0.08$



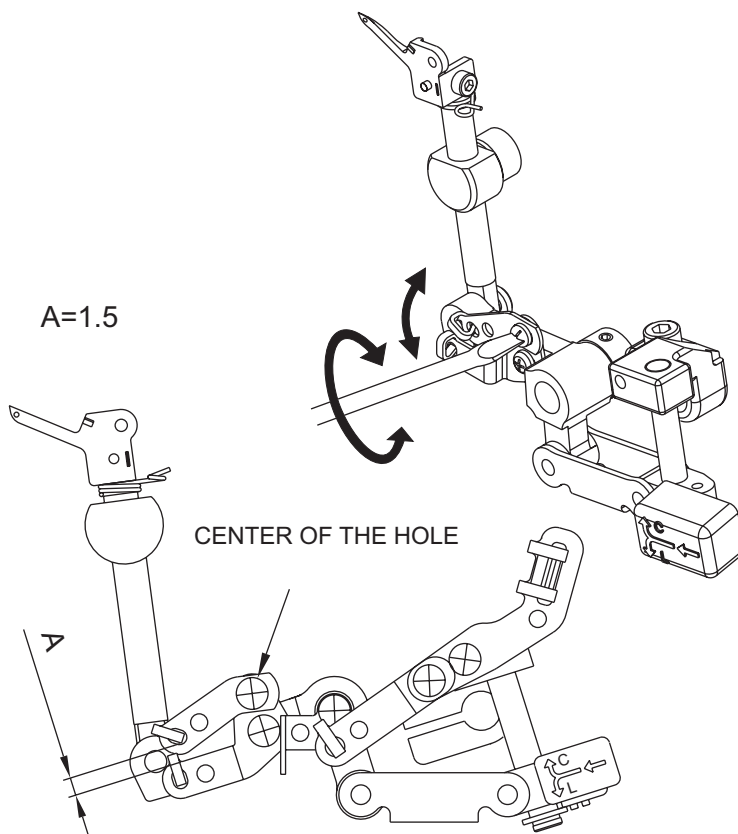
13. POSITION OF THE LOWER LOOPER THREAD TAKE-UP LEVER. THE DISTANCE IS FROM THE UPSIDE OF PLATE TO THE UNDER SIDE OF THE THREAD GUIDE. THE CLOSEST DISTANCE IS FROM THE EDGE OF LOWER LOOPER THREAD TAKE-UP LEVER TO THE HOOP OF LOWER LOOPER THREAD GUIDE.



14. HEIGHT OF THE PRESSER FOOT.

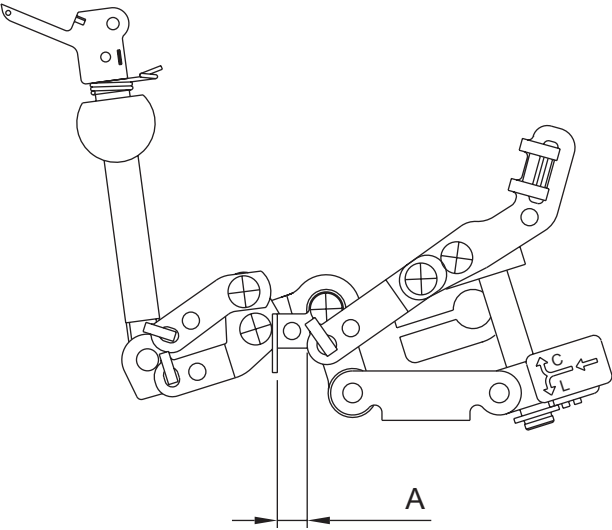


15. POSITION OF THE UPPER LOOPER THREAD TAKE-UP LEVER. THE DISTANCE IS FROM THE TOP EDGE OF THE LOWER LOOPER TAKE-UP LEVER TO THE UNDERSIDE OF UPPER LOOPER TAKE-UP LEVER.

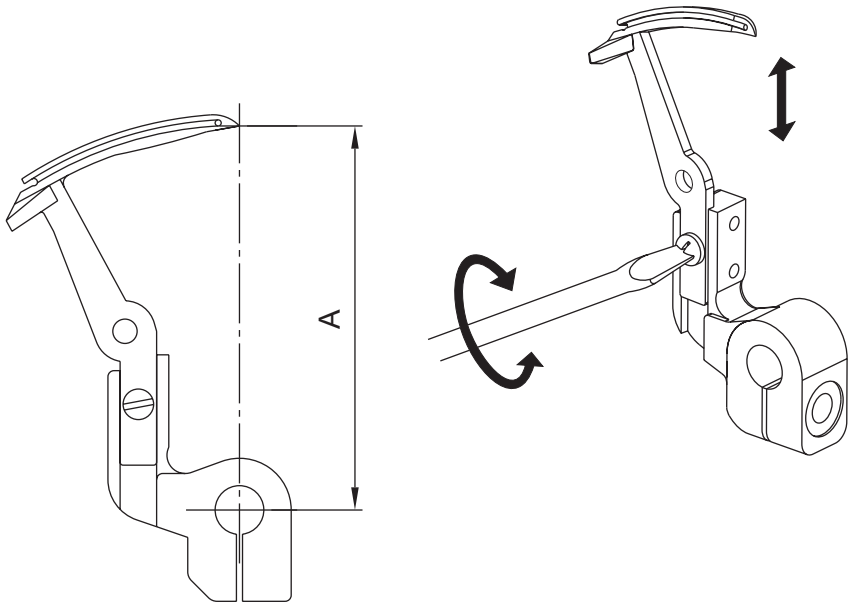


16. POSITION OF THE CHAIN LOOPER THREAD TAKE-UP
LEVER.

A=1.5

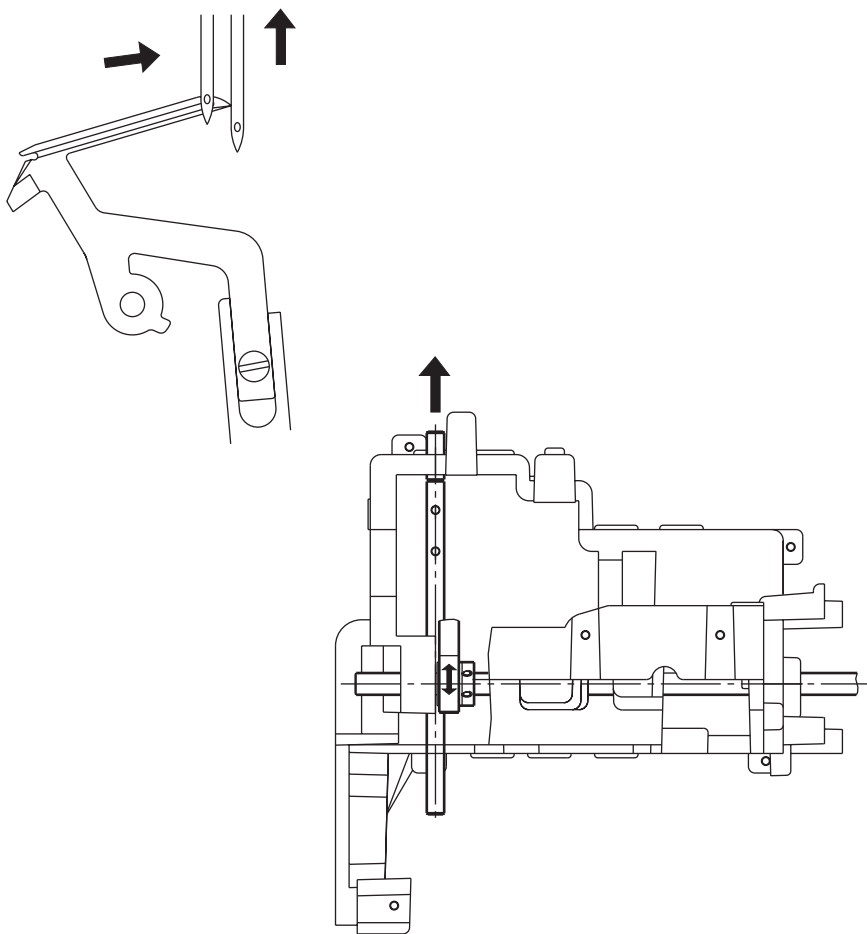


17. RADIUS OF THE CHAIN LOOPER.



$A=62.7$

18. THE BACK END POSITION OF CHAIN LOOPER TIMING CAM IS LOCATED ACCORDING TO THE NEEDLE POSITION OF THE LOWER LOOPER.



19. CLEARANCE BETWEEN NEEDLE AND FRONT NEEDLE GUARD.

$A=0\sim0.03$

