SINGER 299U-Srvc Manual Part One

SINGER 299U MACHINE SERVICE MANUAL PART-I

SINGER NIKKO

299U:MODEL & VARIETY

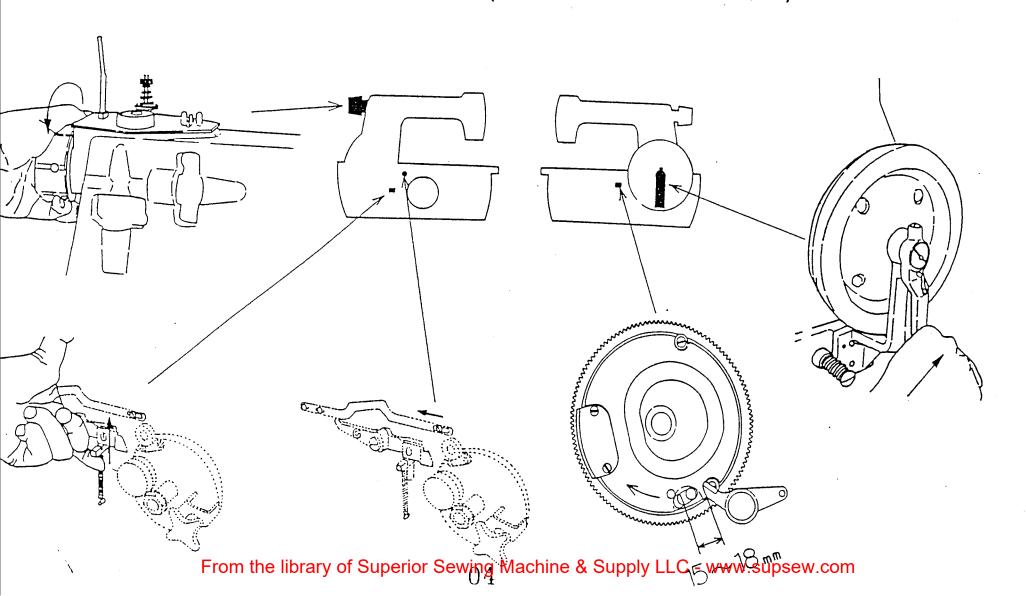
| 1 | IODEL IUMBER | MIN. MAX. | MIN. MAX. | TAPER BAR | | APPLICATION |
|-------------|-----------------|---------------------|---|---------------------------------|--|--------------|
| | 299U231W | 16(5/6) -35(13/6) | $ \begin{array}{r} 13(\frac{1}{2}) - 32(\frac{1}{4}) \\ - 35(\frac{1}{3}) \\ - 35(\frac{1}{3}) \end{array} $ | 9.5(3/6) 6.5(1/1) 3 (1/6) | (A) | (<u>A</u>) |
| C | 299U232W | 16(5/8) -35(13/8) | $ \begin{array}{r} 13(\frac{1}{2}) - 32(\frac{1}{4}) \\ - 35(\frac{1}{4}) \\ - 35(\frac{1}{4}) \end{array} $ | 9.5(3/8) 6.5(1/4) 3 (1/8) | . ® | |
| T B | 299U233LW | 32(11/4) - 38(11/4) | $ \begin{array}{r} 22(\frac{1}{8}) - 29(\frac{1}{8}) \\ -32(\frac{1}{4}) \\ -35(\frac{1}{8}) \end{array} $ | 9.5(3/k) 6.5(1/i) 3 (1/b) | (A) | |
| E F O | 299U233MW | 25(1) - 32(11/4) | $ \begin{array}{r} 16(\frac{5}{8}) - 22(\frac{7}{8}) \\ -25(1) \\ -29(\frac{17}{8}) \end{array} $ | 9.5(3/n) 6.5(1/i) 3 (1/n) | Ø | |
| R E | 299U233SW | 19(3/4) - 25(1) | $ \begin{array}{r} 13(\frac{1}{2}) - 19(\frac{3}{4}) \\ -22(\frac{7}{8}) \end{array} $ | 6.5(½) 3 (½) | (A) | (<u>f</u>) |
| | 299U237MW | 25(1) - 32(11/1) | $ \begin{array}{r} 16(\frac{5}{6}) - 22(\frac{7}{6}) \\ -25(1) \\ -29(\frac{11}{6}) \end{array} $ | 9.5(3/n) 6.5(1/n) 3 (1/n) | (B) (C) | |
| C U T | 299U211W | 16(3/8) -35(13/8) | $ \begin{array}{r} 13(\frac{1}{2}) - 32(\frac{1}{2}) \\ - 35(\frac{1}{2}) \\ - 35(\frac{1}{2}) \end{array} $ | 9.5(½) 6.5(½) 3 (½) | (B) | |
| A | 299U123W | | $ \begin{array}{r} 13(\frac{1}{2}) - 19(\frac{3}{4}) \\ -22(\frac{1}{6}) \end{array} $ | 6.5(½) 3 (½) | Ō | |
| T E R | 299U127W | | $ \begin{array}{r} 13(\frac{1}{2}) - 19(\frac{3}{4}) \\ -22(\frac{1}{8}) \end{array} $ | 5.5(½) 3 (½) | © | |
| C / | 299U251W | 16(5/6) - 35(13/6) | $ \begin{array}{r} 13(\frac{1}{2}) - 32(\frac{1}{4}) \\ - 35(\frac{1}{4}) \\ - 35(\frac{1}{4}) \end{array} $ | 9.5(3/8) 6.5(1/4) 3 (1/6) | (A)(B) | © |
| A & | 299U253LW | 32(11/4) - 38(11/2) | $ 22(\frac{1}{8}) - 29(\frac{1}{8}) \\ -32(\frac{1}{4}) \\ -35(\frac{1}{8}) $ | 9.5(3/8) 6.5(1/1) 3 (1/8) | (A) (B) | |
| C | 299U253MW | 25(1) - 32(11/4) | $ \begin{array}{r} 16 \left(\frac{5}{6}\right) - 22 \left(\frac{7}{6}\right) \\ - 25 \left(1\right) \\ - 29 \left(1\frac{1}{6}\right) \end{array} $ | 9.5(½R) 6.5(½) 3 (½R) | (\(\bar{\Psi}\))(\(\Bar{\Bar{\Bar{\Bar{\Bar{\Bar{\Bar{\B | |
| B | 299U253SW | 19(1/4) - 25(1) | $ \begin{array}{c} 13(\frac{1}{2}) - 19(\frac{3}{4}) \\ -22(\frac{1}{8}) \end{array} $ | 6.5(½) 3 (½) | (Ā)(Ē) | |

APPLICATION

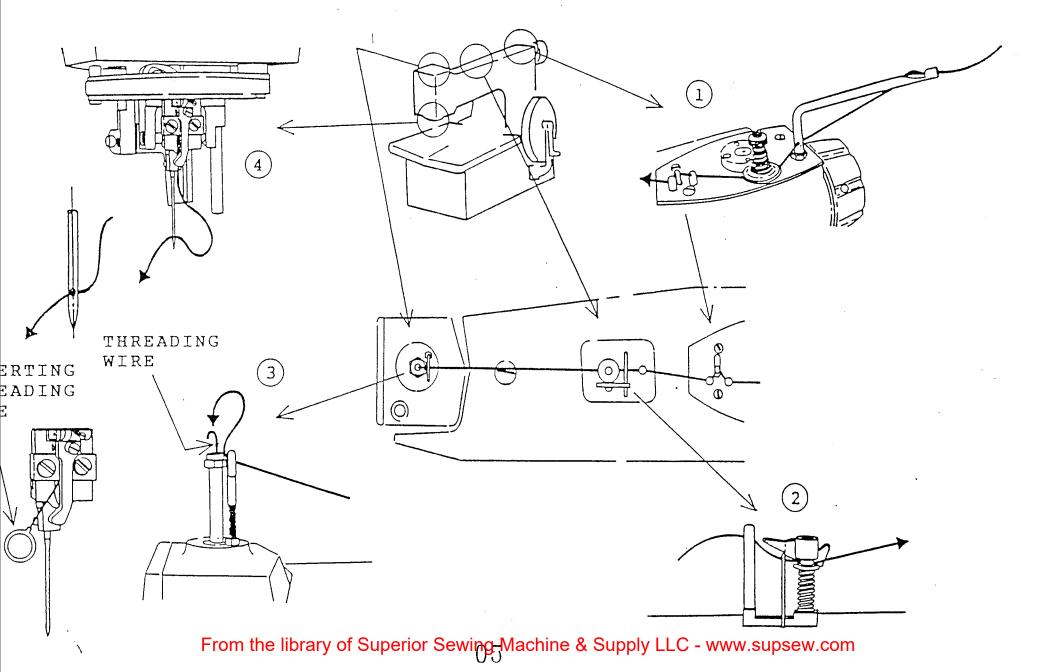
| CUT BEFORE 299U230W/231W 299U233MW/233LW JEANS KNITTED TROUSERS | | | APPLICATION & VARIETY | |
|---|------------|---|------------------------|--|
| JEANS KNITTED TROUSERS | CUT BEFORE | | MEN'S OR LADY'S JACKET | |
| | | | | |
| AFTER STATES | CUT AFTER | MANAMAMAMAMAMAMAMAMAMAMAMAMAMAMAMAMAMAM | JEANS KNITTED TROUSERS | |

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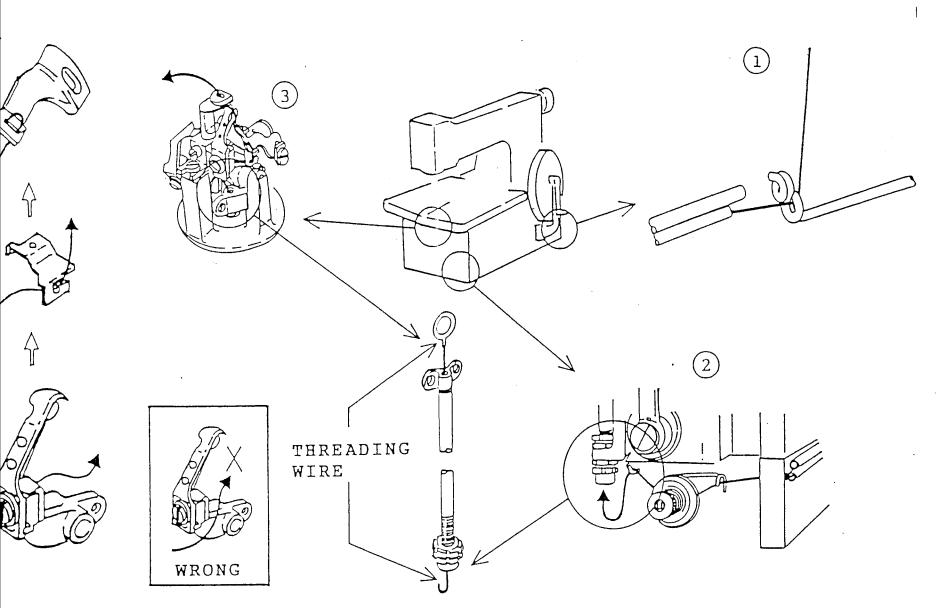
5-CHECK POINTS BEFORE SEWING (BEFORE POWER ON)



THREADING (NEEDLE THREAD)

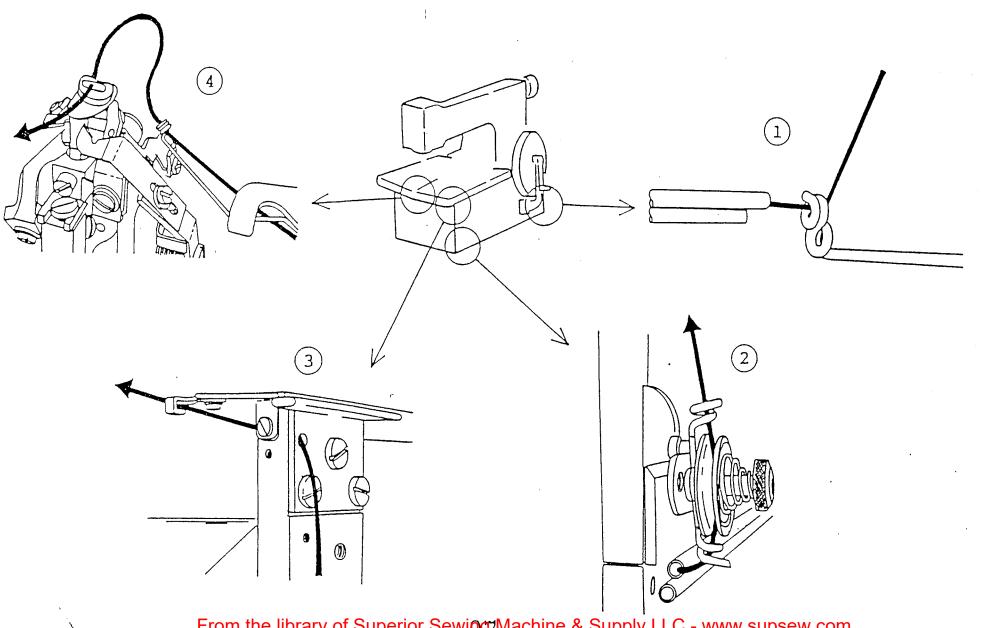


THREADING (LOOPER)



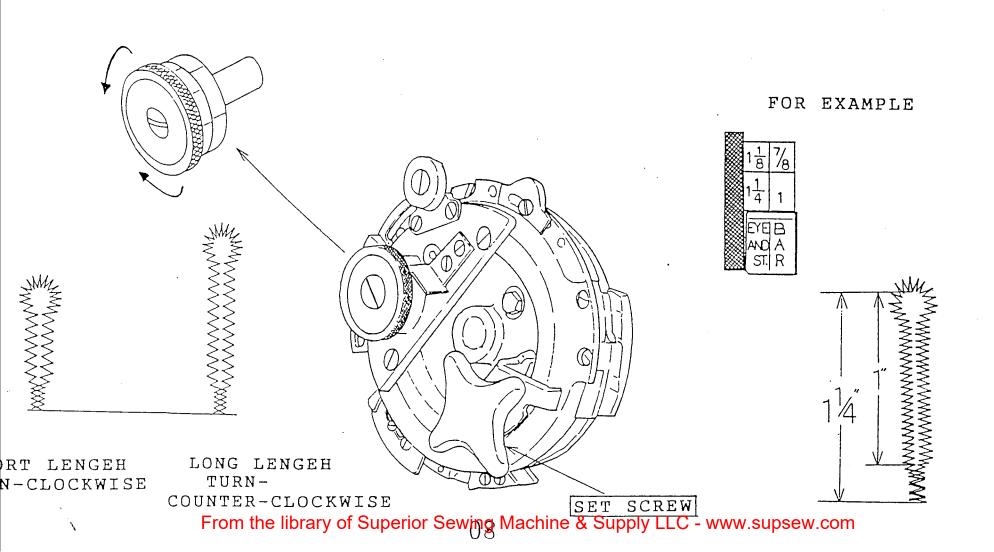
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THREADING (GIMP)

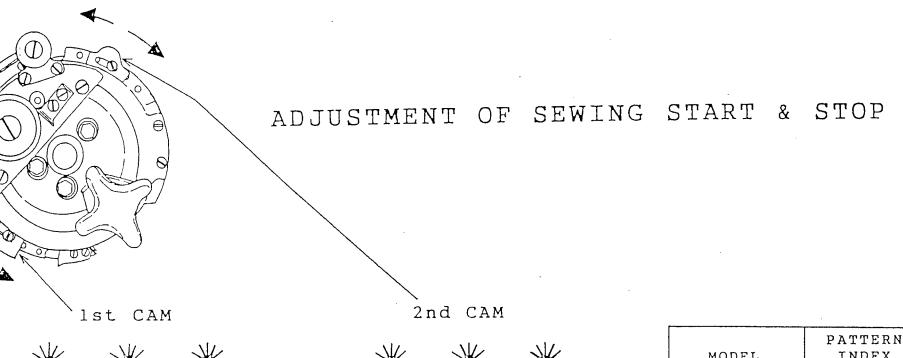


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ADJUSTMENT OF BUTTONHOLE LENGTHS



| | | PATTERN | WHEELE C | AM BLOCK | |
|--|---|--------------|------------|----------|-------|
| ELECTION OF BUTTONHOLE PATI | ERN | EYE | lst | 2nd | LEVER |
| LEVER | MATANHAHAHAHAHAHAHAHAHAHAHAHAHAHAHAHAHAHA | | | | DOWN |
| BLOCK | WWW.WWW.WWW.WW. | | | | UP |
| 2 nd | NHHHHHHHHHHHHHHHHHHHHHHHHHHHHHHHHHHHHH | | | | DOWN |
| SIDE BLOCK | HWWWWWWWWK | | | | DOWN |
| EYE CAM BL 5 rown the library of Superior Sewing | Machine | & Supply LLC | - www.sups | ew.com | |

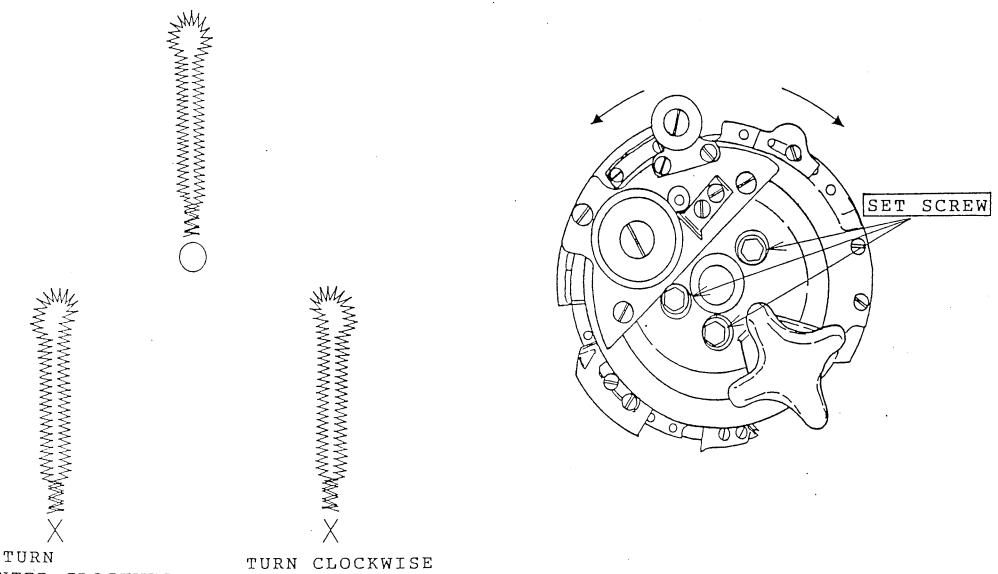


| | | | | 34 |
|---------------------------|--|--|--------------------------------------|--|
| | \\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\ | \\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\ | | ************************************** |
| TOO SHORT TURN- CLOCKWISE | | TOO LONG TURN- COUNTER- CLOCKWISE | X TOO SHORT TURN- COUNTER- CLOCKWISE | TOO LONG TURN- CLOCKWISE |

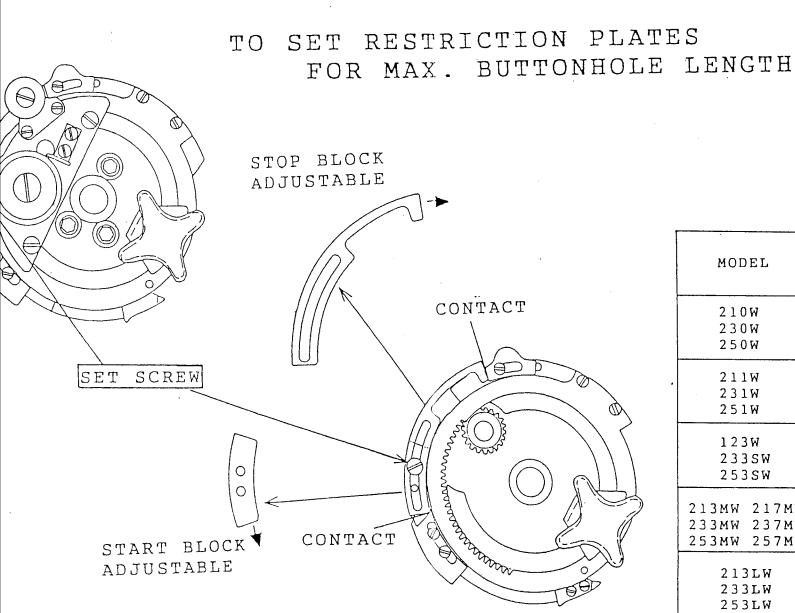
| MODEL | PATTERN WHEEL INDEX DISC (EYE AND ST.) |
|---|--|
| 210W 211W 230W 231W 250W 251W | 1"1/4 (31.8mm) |
| 123W 233SW 253SW | 1" (25.4mm) |
| 213MW 217MW 233MW 237MW 253MW 257MW | 1"1/4 (31.8mm) |
| 213LW 233LW 253LW | 1"1/2 (38.1mm) |

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ADJUSTMENT OF PATTERN WHEEL CAM BLOCK (eye)



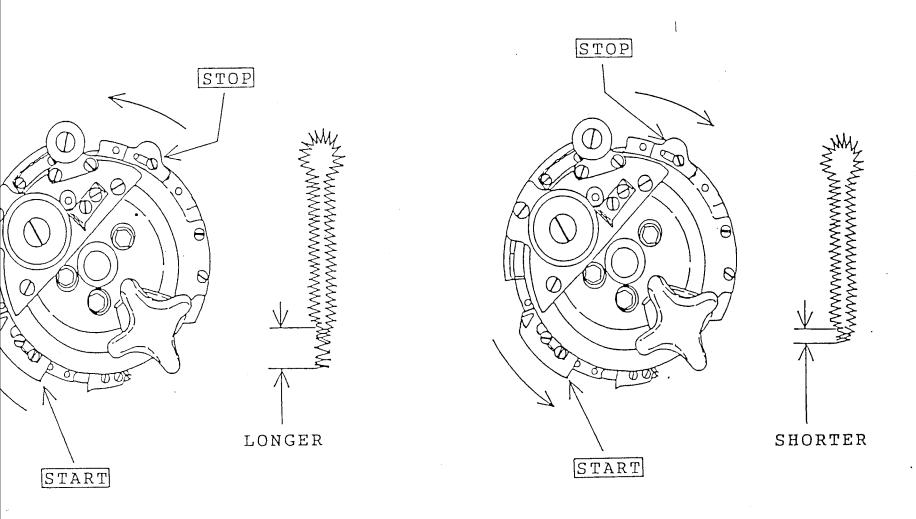
OUNTER-CLOCKWISFrom the library of Superior Sewing Machine & Supply LLC - www.supsew.com



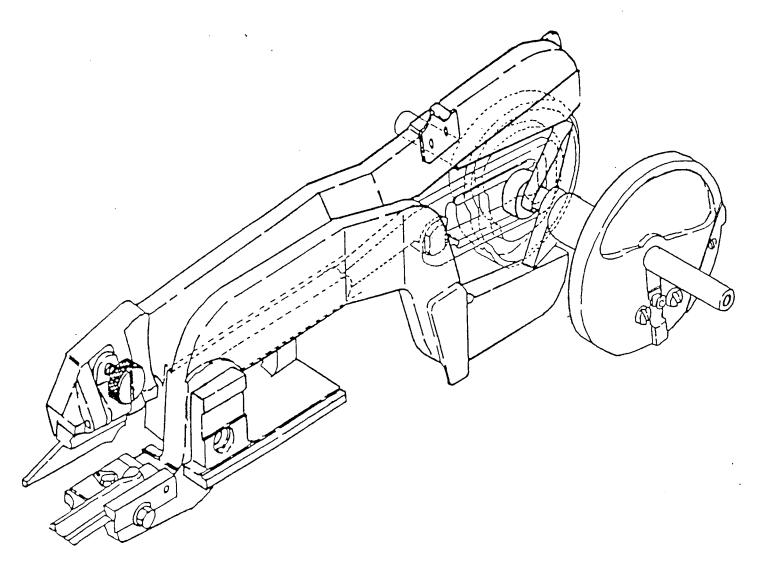
| MODEL | PATTERN WHEEL INDEX DISC (EYE AND ST.) | | | |
|---|--|--|--|--|
| 2 1 0 W 2 3 0 W 2 5 0 W | 1"5/8 (41.3mm) | | | |
| 211W 231W 251W | 1"3/8 (35.0mm) | | | |
| 123W 233SW 253SW | 1" (25.4mm) | | | |
| 213MW 217MW 233MW 237MW 253MW 257MW | 1"1/4 (31.8mm) | | | |
| 213LW 233LW 253LW | 1"1/2 (38.1mm) | | | |

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ADJUSTMENT OF TAPER BAR LENGTHS

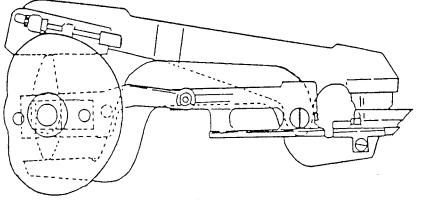


CUTTING MECHANISM

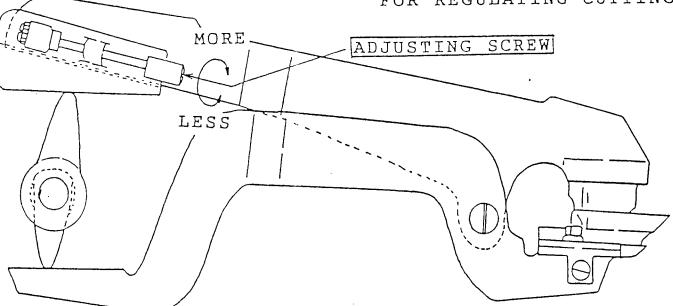


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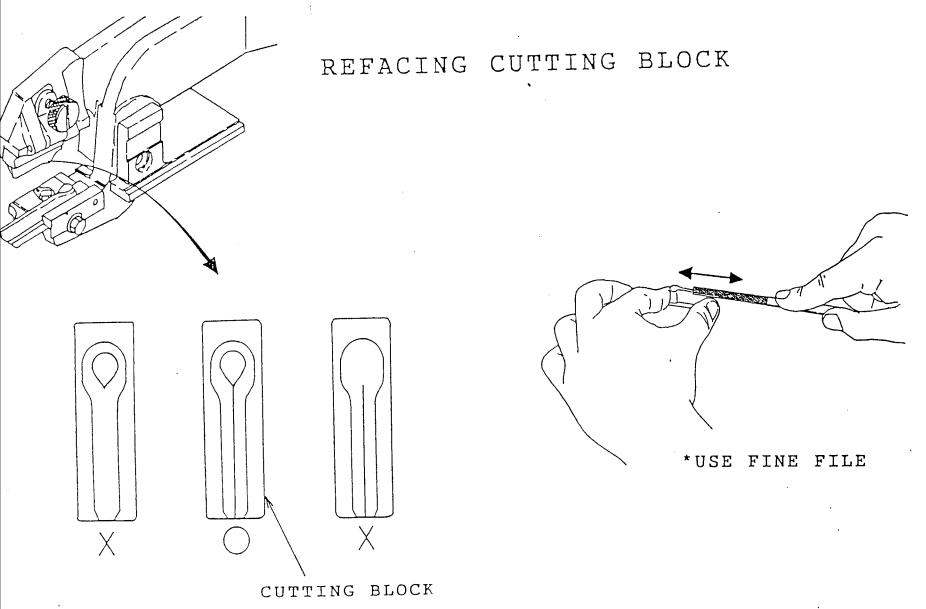
ADJUSTMENT OF CUTTING KNIFE PRESSURE



MAKE TRIAL CUTTING WITH A SHEET OF PAPER FOR REGULATING CUTTING PRESSURE

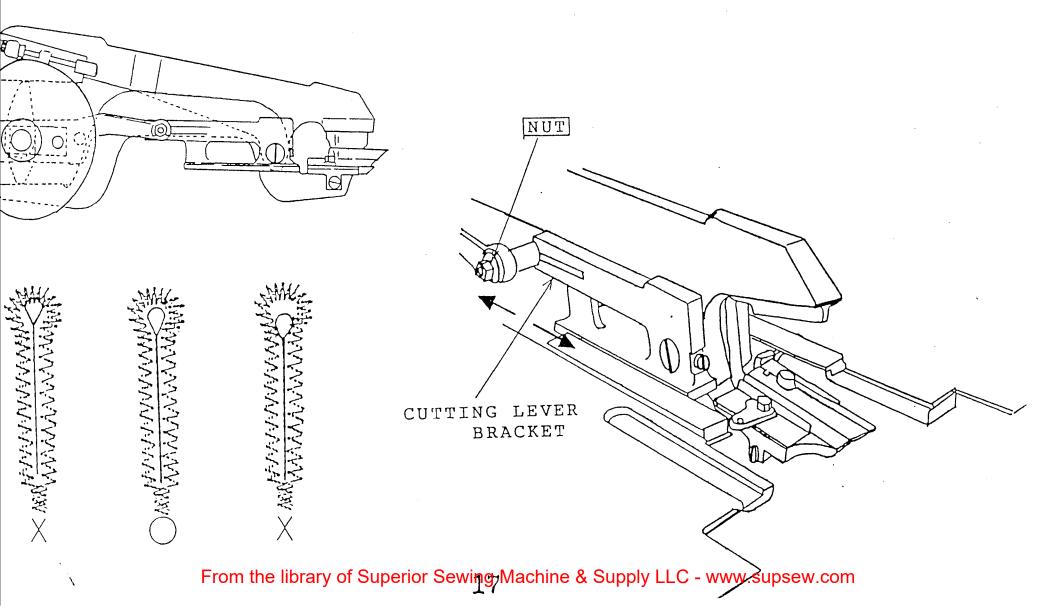


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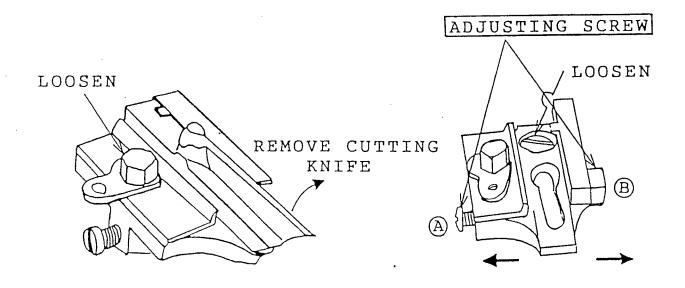
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POSITION OF CUTTING KNIFE (1)



O MIN ANTONIO VIVO VIVO MANAGE

POSITION OF CUTTING KNIFE (2)



TO MOVE KNIFE TO RIGHT

LOOSEN SCREW (A)

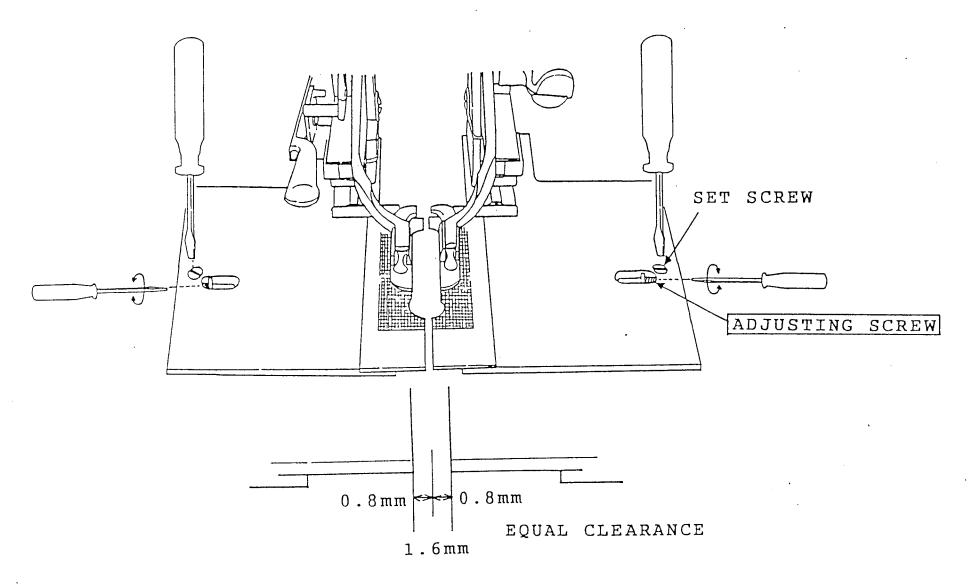
TIGHTEN SCREW (B)

TO MOVE KNIFE TO LEFT

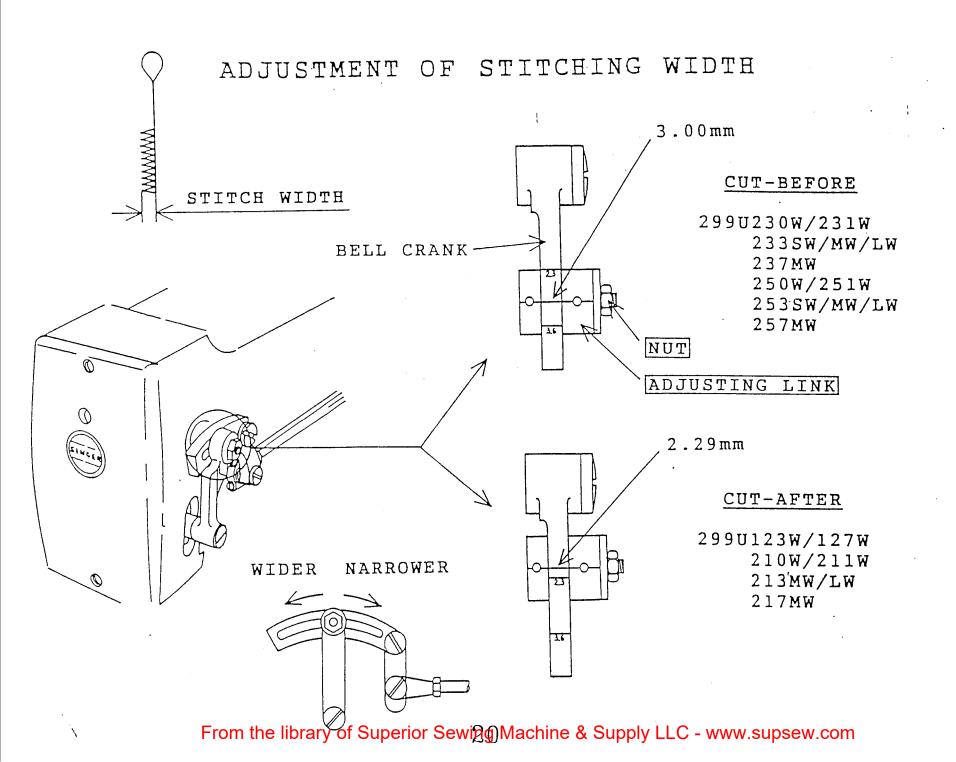
TIGHTEN SCREW (A)

LOOSEN SCREW (B)

ADJUSTMENT OF WORK SPREAD AMOUNT

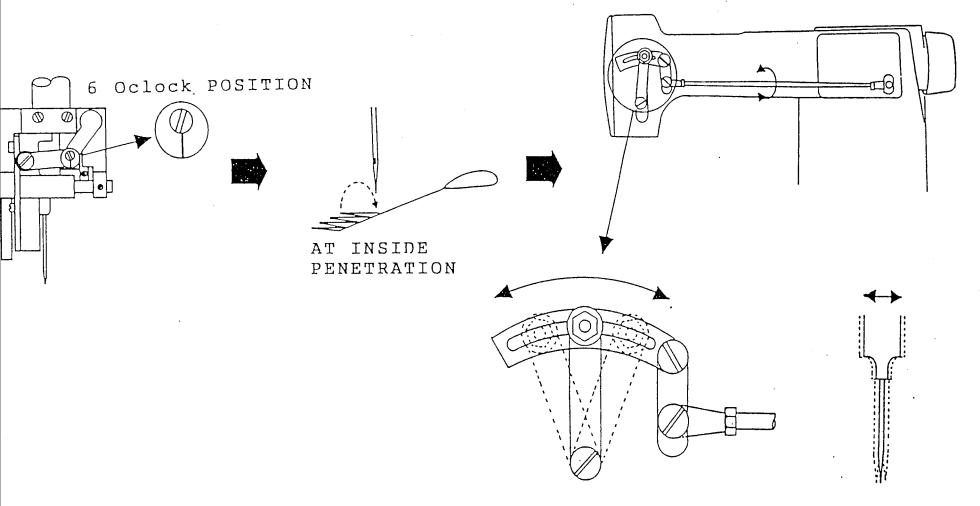


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TO STOP NEEDLE VIBRATION WHILE PENETRATING(1)

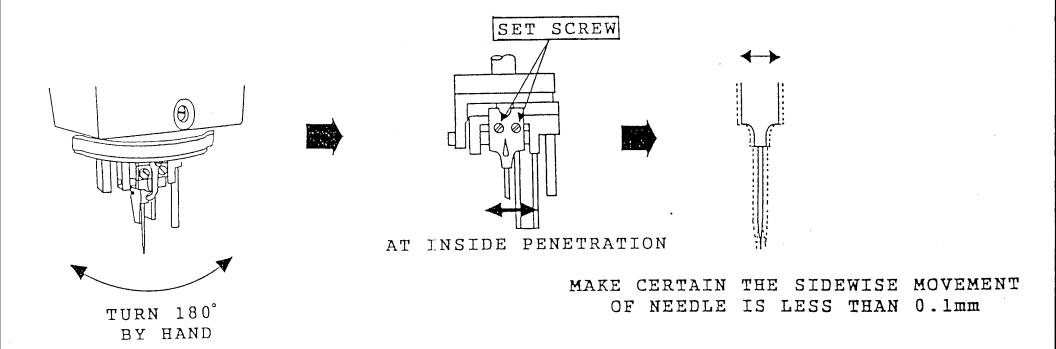
(ADJUSTING LENGEH OF NEEDLE VIBRATING BELL CRANK CONNECTION ROD)



MAKE CERTAIN THE SIDEWISE MOVEMENT OF NEEDLE IS LESS THAN 0.1mm

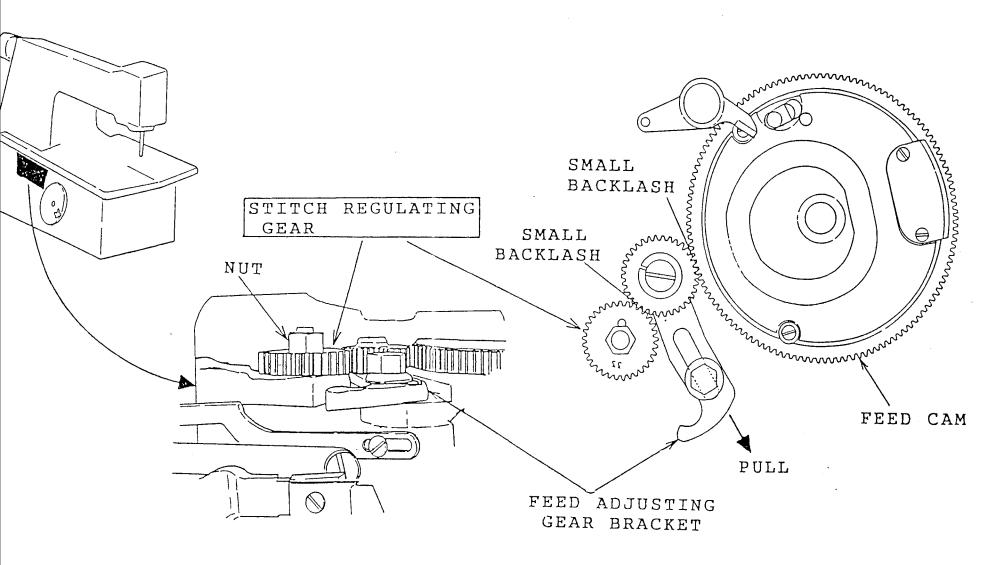
TO STOP NEEDLE VIBRATION WHILE PENETRATING(2)

(ADJUSTMENT OF NEEDLE HOLDER)



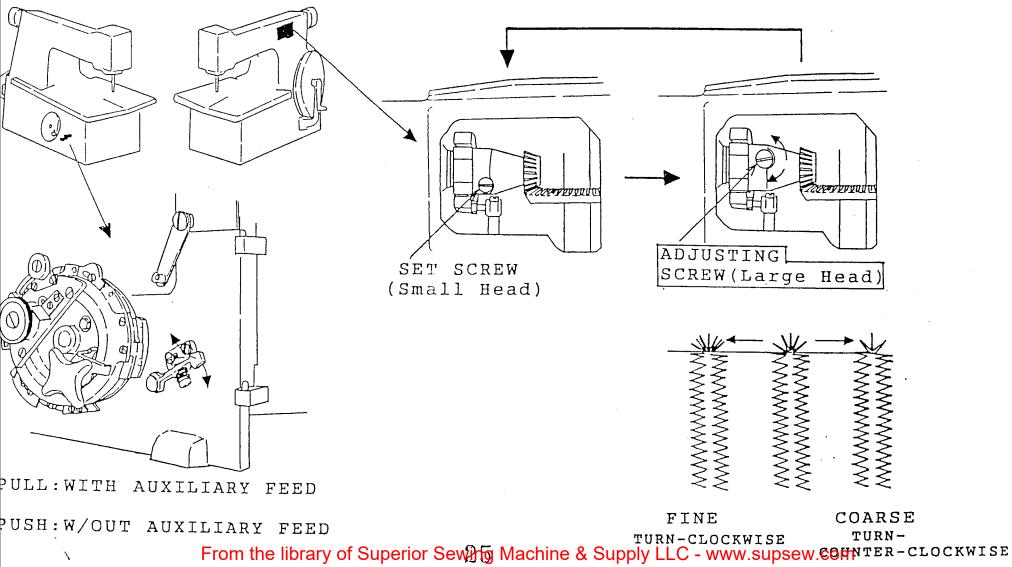
ADJUSTMENT OF CUTTING SPACE (ECCENTRIC SCREW) Oclock POSITION Oclock POSITION CUT-AFTER CUT-BEFORE

TO CHANGE STITCH REGULATING GEAR

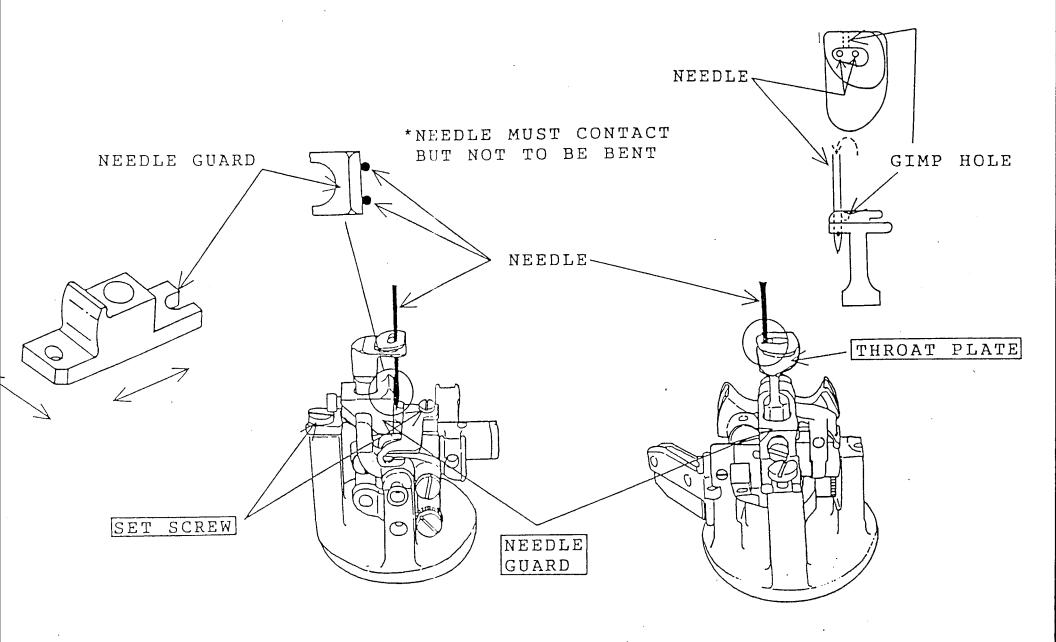


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ADJUSTMENT OF AUXILIARY FEED



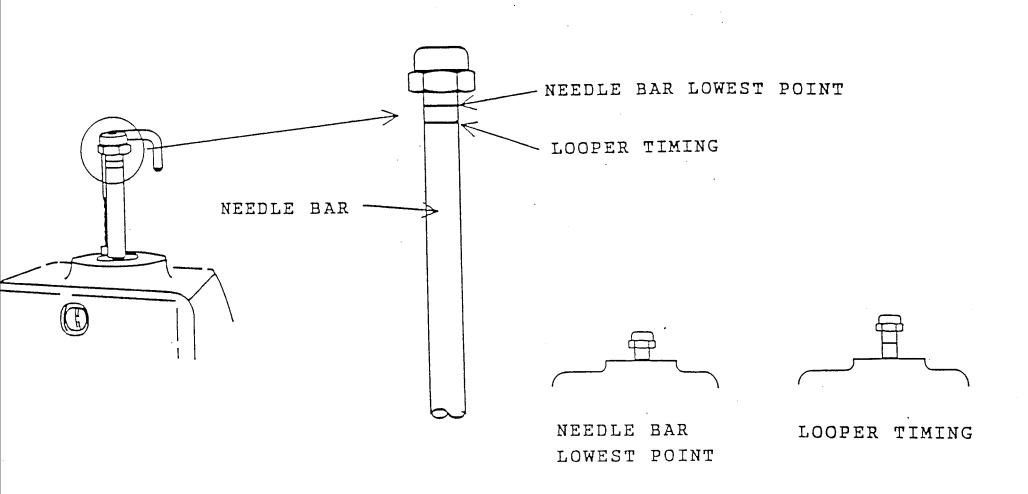
POSITION OF NEEDLE GUARD & THROAT PLATE



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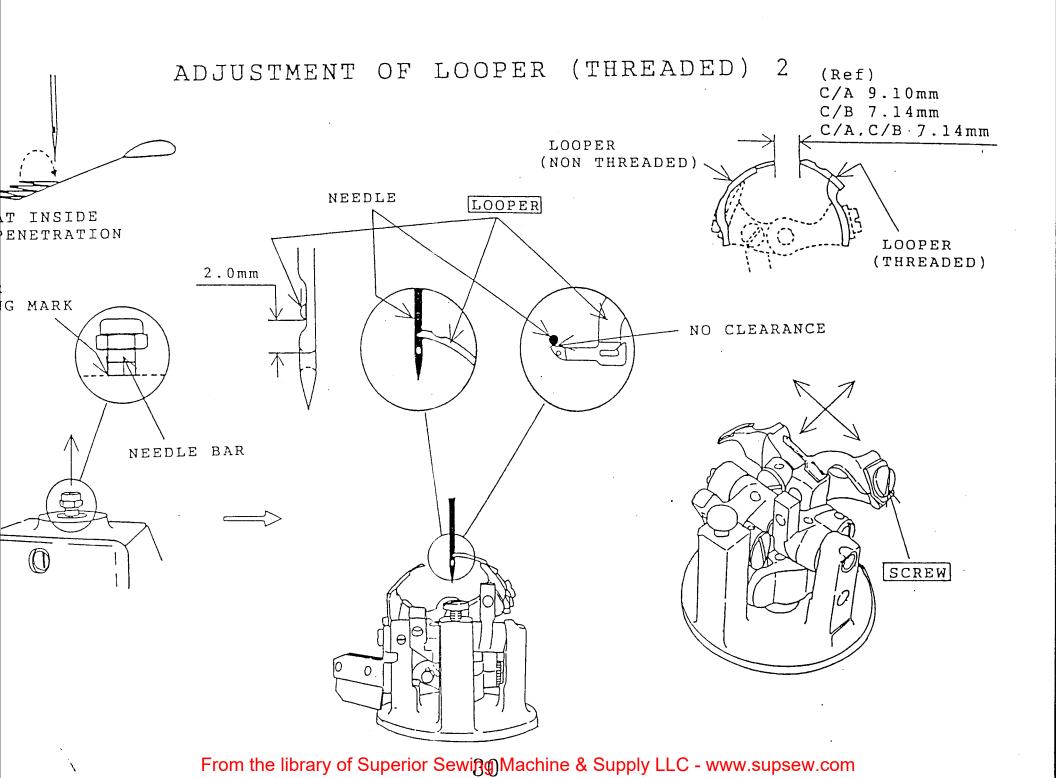
HEIGHT OF THRORT PLATE 299U 123W/127W/213W 0.2mm 233W/253W/257W 0.8mm 299U 210W/211W/230W 231W/250W/251W BASE PLATE SET SCREW THROAT PLATE

TIMING MARKS ON NEEDLE BAR

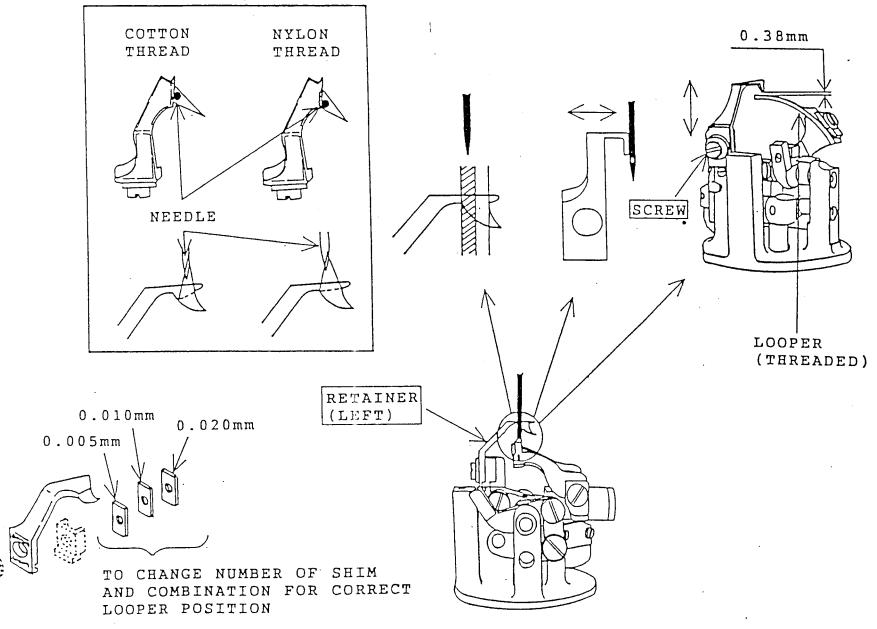


ADJUSTMENT OF LOOPER (NON THREADED) 1 LOOPER NEEDLE $2.0\,\text{mm}$ DUTSIDE ETRATION NO CLEARANCE R NG NEEDLE BAR SCREW

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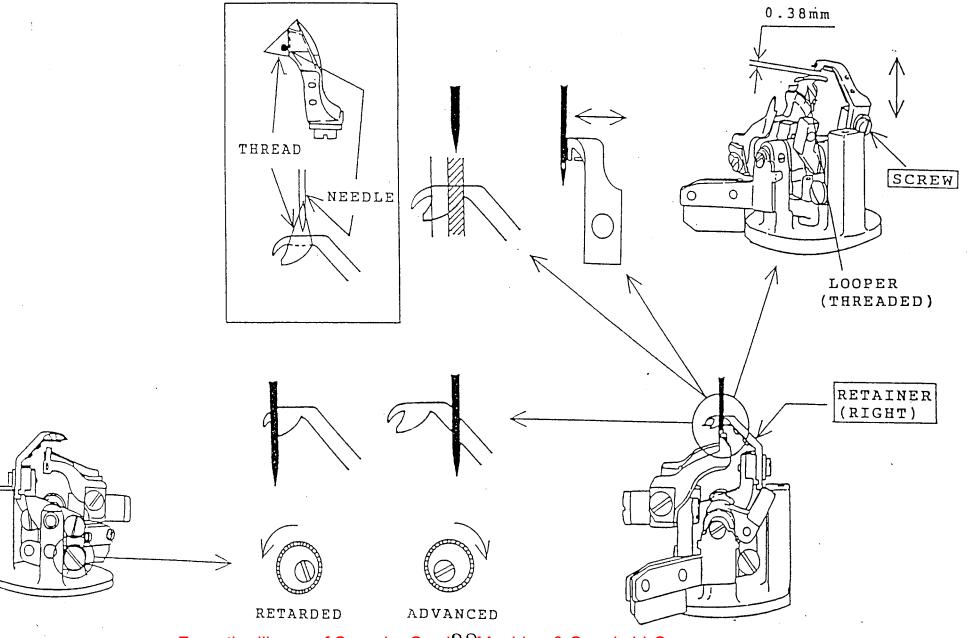


ADJUSTMENT OF LOOP RETAINER (LEFT) 1



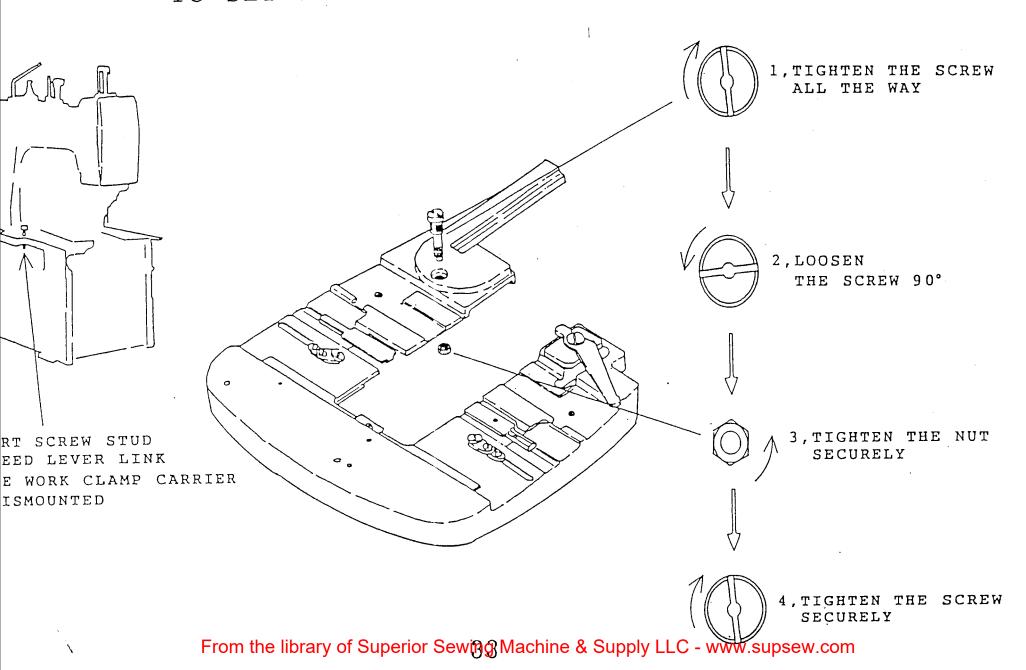
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ADJUSTMENT OF LOOP RETAINER (RIGHT) 2



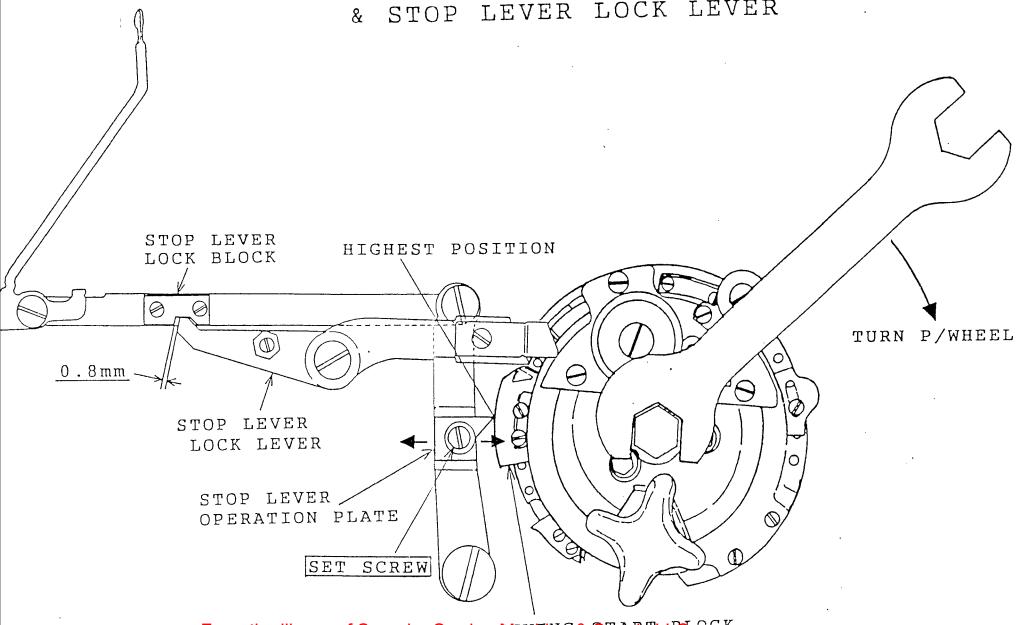
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TO SET THE WORK CLAMP CARRIER



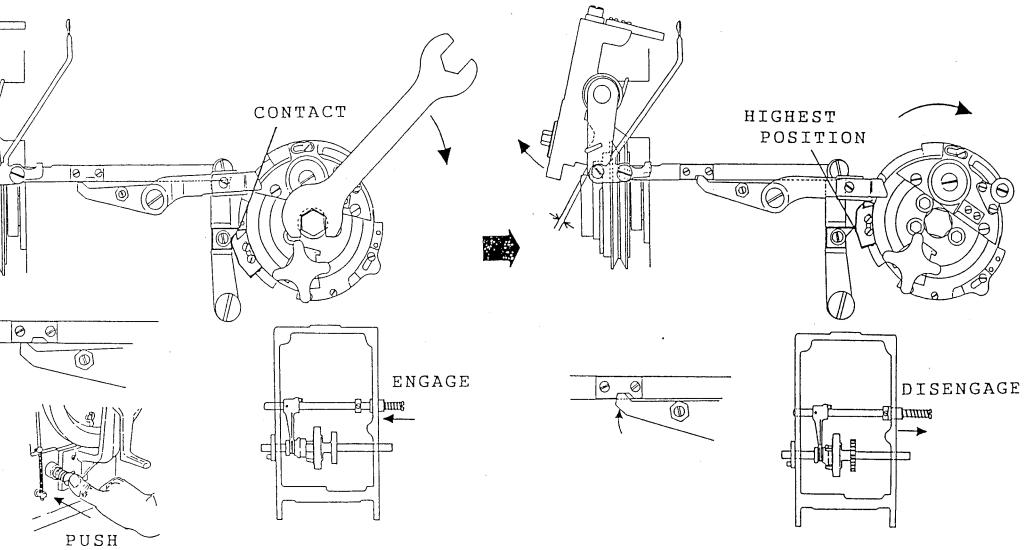
JUSTMENT OF CLEARANCE BETWEEN STOP LEVER LOCK BLOCK

& STOP LEVER LOCK LEVER



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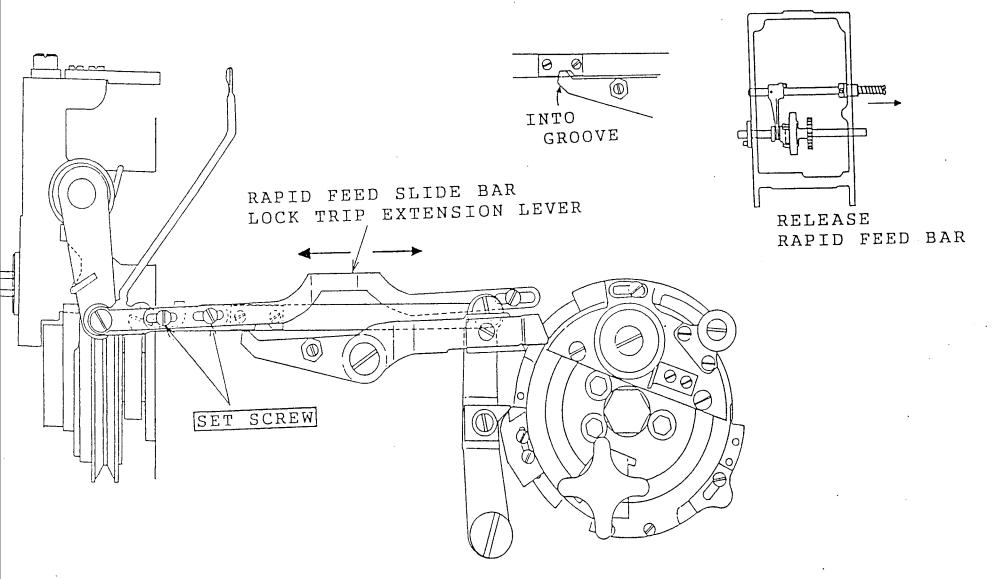
DISENGAGE TIMING OF RAPID FEED (1) (RAPID FEED TO SEWING)



ENGAGING RAPID FEED

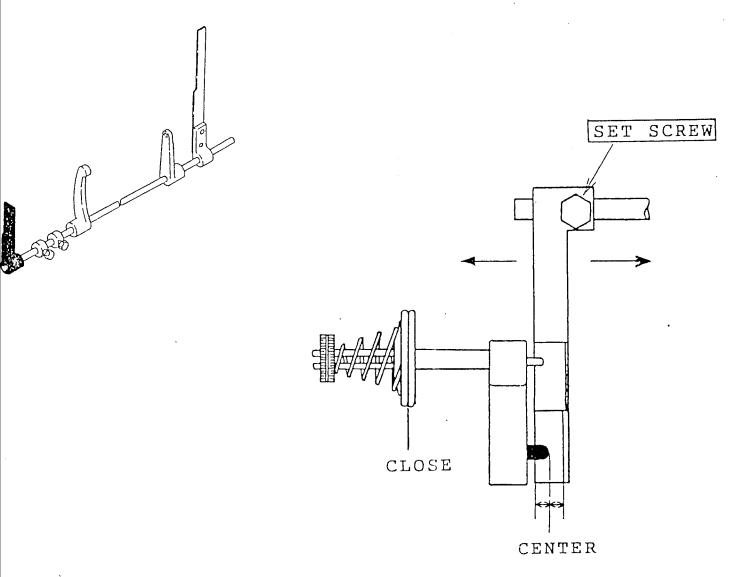
DISENGAGING RAPID FEED

DISENGAGE TIMING OF RAPID FEED (2) (RAPID FEED TO SEWING)



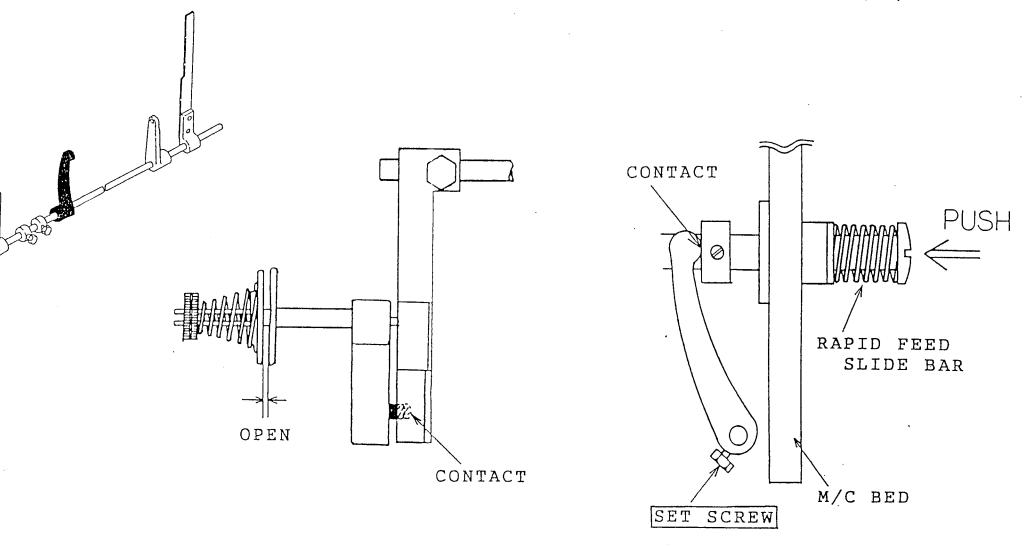
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ADJUSTMENT OF TENSION RELEASE MECHANISM(1)

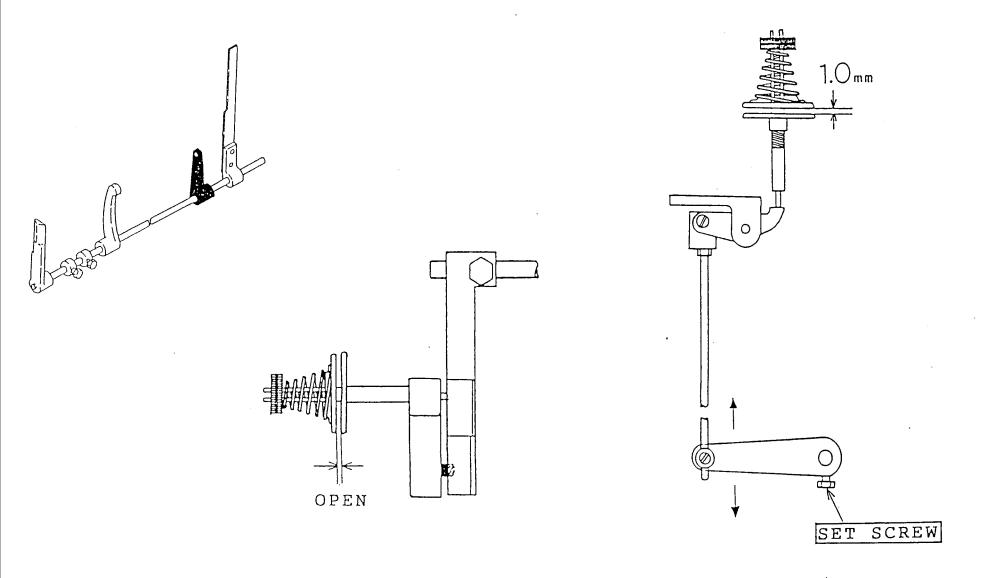


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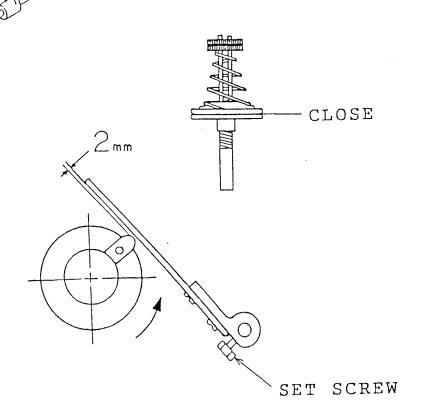
ADJUSTMENT OF TENSION RELEASE MECHANISM (2)

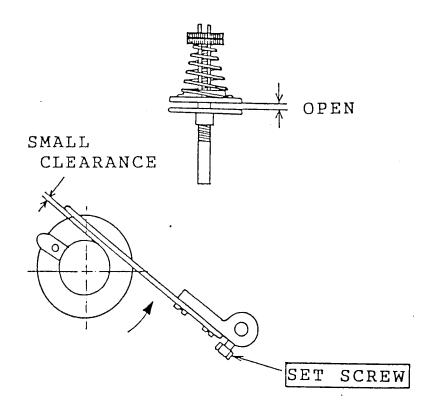


ADJUSTMENT OF TENSION RELEASE MECHANISM (3)



ADJUSTMENT OF TENSION RELEASE MECHANISM (4)

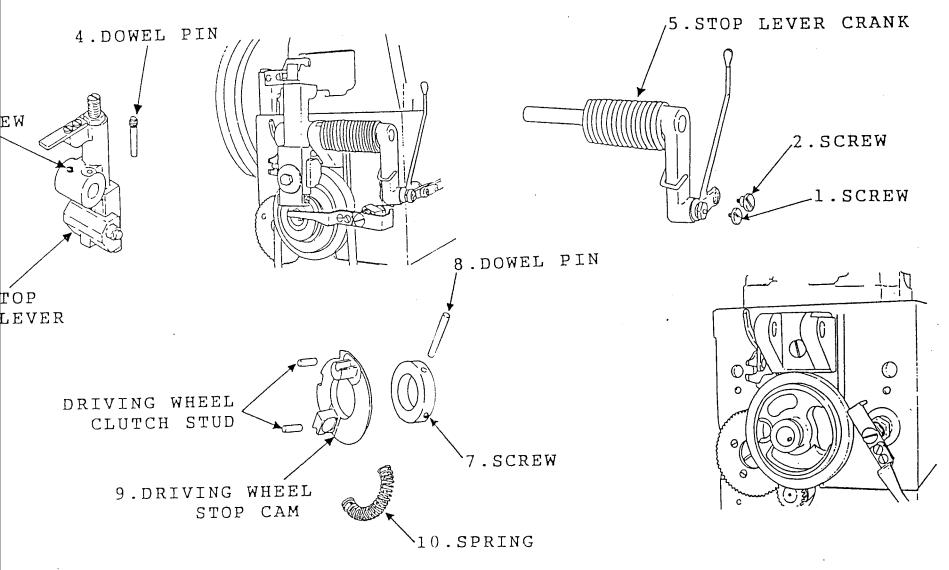




M/C AT STOP POSITION OR M/C ON RAPID FEED

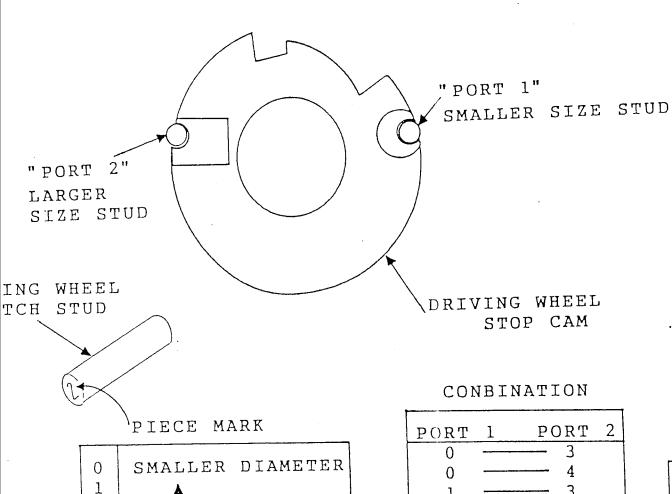
M/C ON SEWING

ADJUSTMENT OF DRIVING WHEEL CLUTCH (DISASSEMBLING)

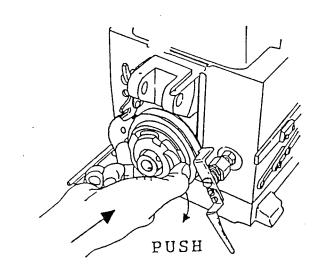


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CLUTCH ADJUSTMENT OF DRIVING WHEEL (ASSEMBLING)



LARGER DIAMETER

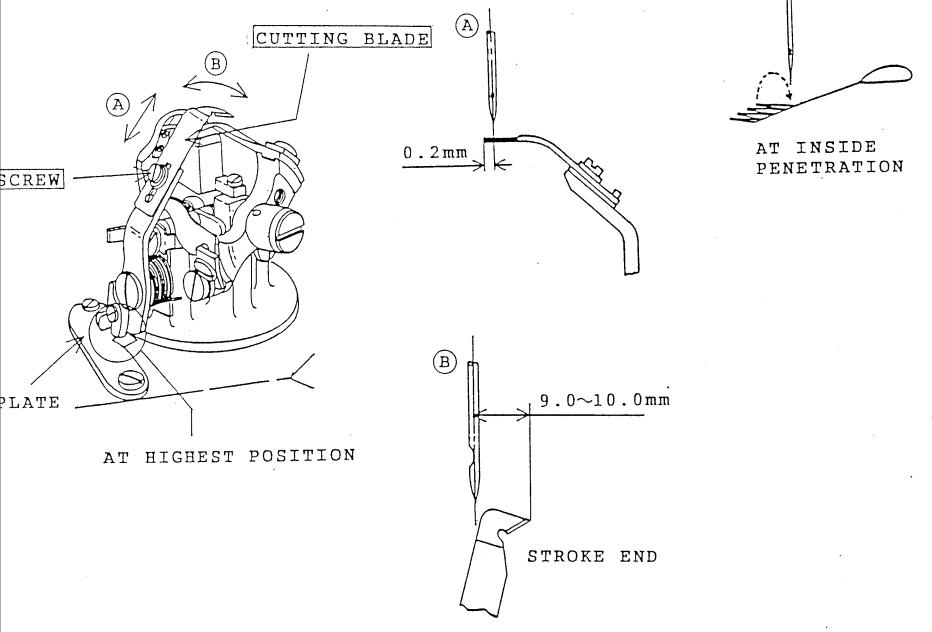


| | PORT | 1 | PORT | 2 |
|---|------|---|---------------|---|
| Ì | 0 | | 3 | |
| | 0 | | 4 | |
| | 1 | | 3 | |
| | 1 | | 4 | |
| | 2 | | 3 | |
| | 2 | | 4 | |

PHENOMENON RESULTS FROM MISCOMBINATION OF STUDS

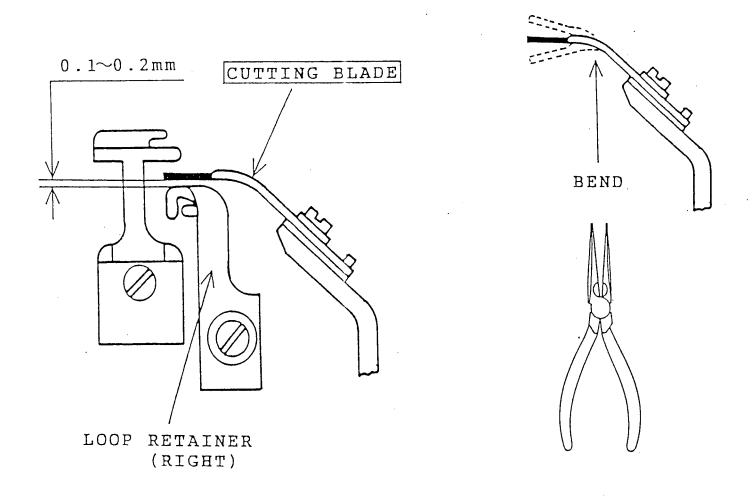
| | LOOSE | TIGHT |
|------------------|-------|-------|
| CLUTCH | SLIP | NOIZE |
| MOTION OF NEEDLE | SLOW | - |

ADJUSTMENT OF CUTTING BLADE (1)

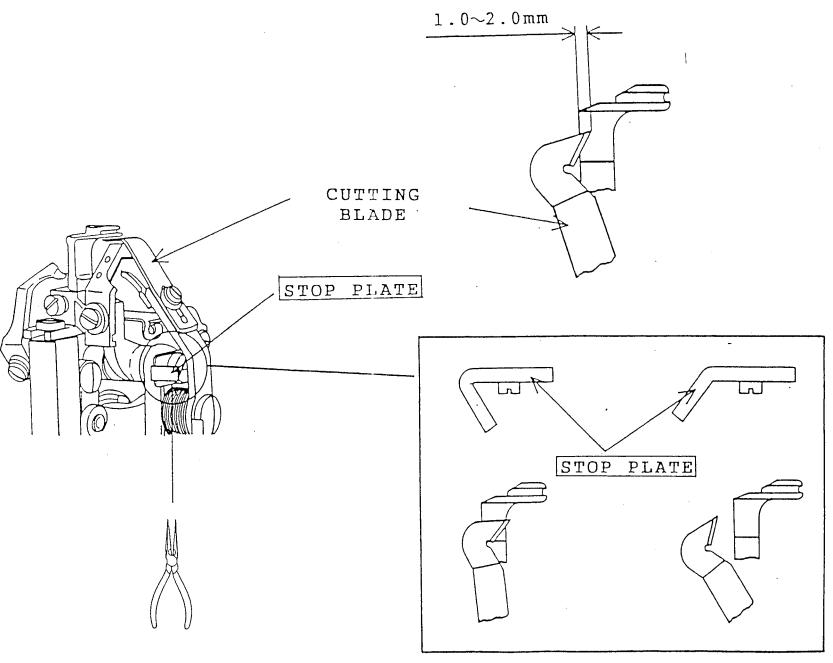


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ADJUSTMENT OF CUTTING BLADE (2)



ADJUSTMENT OF CUTTING BLADE (3)



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