HOW TO SET HANDWHEEL

Remove two screws and take off bushing, and set handwheel with the two screws.

LUBRICATION

Use white spindle oil. When starting the machine initially and after kept for a long time without using at all, oil sufficiently to respective necessary parts before starting operation, pre-running and with severe use. Oil frequently each necessary parts during operation.
HOW TO SET THE NEEDLE
* Move needle bar to HIGHEST point.
  Loosen needle set screw.
* Insert needle up as far as possible,
  setting its long groove towards the left.
* Tighten needle set screw securely.

WINDING THE BOBBIN
* Set bobbin winder as shown
  B: Adjustment of center position
  C: Adjustment of winding amount

INSERTING & REMOVING THE BOBBIN

THREADING NEEDLE
MORE TENSION . . . turn to right
LESS TENSION . . . turn to left
SUITABLE TENSION . . . determined by type of material being sewn

ADJUSTMENT OF STITCH LENGTH

Adjust Stitch length by serrated nut (A) and tighten nut (B) against nut (A)

ADJUSTMENT OF ALTERNATING PRESSER AND UPPER FEED

C . . . adjustment of alternating presser
D . . . adjustment of feeding amount of outer foot
HEIGHT OF NEEDLE
When the point of hook is at the center of the needle, normal measurement between the hook point and the upper end of the needle eye should be 3-4 mm.
* Note: the measurement is for standard needle size. To adjust the measurement, raise or lower the needle bar as may be required.

TABLE

<table>
<thead>
<tr>
<th>Motor position</th>
<th>Unit: mm</th>
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<tbody>
<tr>
<td>3-4</td>
<td>Mark * measurement is for Japanese standard motor.</td>
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</tbody>
</table>

A-A section  B-B section

Motor pulley: 70  V-belt: M-64

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