

## 2. THREAD CONTROL

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### Setting take-up spring

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- CHECK:**
1. Set stitch width dial at  $\ddagger$ , needle position dial at  $\perp$ , stitch length dial at 12 and tension dial between 3 and 4.
  2. Place a piece of light-weight material (two ply) under presser foot.
  3. Turn hand wheel over toward you until eye of size 14 needle is about to enter fabric as shown at T.
  4. Spring V should be at rest against stop W.
- SETTING:**
1. Using an old needle, carefully remove decal U to reveal slot in screw X.
  2. Loosen screw X and rotate unit as required.
  3. Tighten screw X.
  4. Position decal U on screw X, aligning notches in decal with screw slot. Press decal firmly into position. (If decal is damaged or lacks adhesion, fit new decal.)

### Setting thread clearances

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#### SETTING CLEARANCE UNDER BOBBIN CASE RETAINING PLATE

- CHECK:**
1. Open bed slide and remove throat plate.
  2. Turn hand wheel over toward you until hook point is in position shown at Q.
  3. Using a wire feeler gauge, check clearance under bobbin case retaining plate at point S. The clearance should be .010 to .014 inch (.25 - .36mm).
- SETTING:**
1. Remove bobbin.
  2. Turn hand wheel over toward you until hook point is in position shown at Q.
  3. Loosen set screw J.
  4. Loosen two Allen screws L (use 3/32 inch A/F Allen key) and turn jacking screw M (making sure that eccentric hook bushing N does not rotate) until clearance of .010 to .014 inch (.25 - .36mm) between bobbin case and bobbin case retaining plate R is obtained.
  5. Tighten set screw J.
  6. Check hook timing as instructed on page 23.
  7. Check distance between hook point and needle as instructed on page 16.

#### SETTING CLEARANCE BETWEEN BOBBIN CASE AND POSITION PLATE AND RESTRAINING PLATE

- CHECK:**
1. Open bed slide and remove throat plate.
  2. Turn hand wheel over toward you until hook point is in position shown at D.
  3. Using a wire feeler gauge, check point F. The clearance should be .010 to .014 inch (.25 - .36mm).
  4. Using a wire feeler gauge (.010 to .018 inch) (.25 - .46mm), check clearance under position plate at point G. Adjust in conjunction with clearances under bobbin case retaining plate.
- SETTING:**
1. Turn hand wheel over toward you until hook point is in position shown at D.
  2. Loosen screws A, E and H.
  3. Move position plate P to obtain a clearance of .010 to .014 inch (.25 - .36mm) between bobbin case and position plate at point F.
  4. Tighten screws E and H.
  5. Move restraining plate C to obtain a clearance of .012 to .018 inch (.30 - .46mm) between restraining plate and bobbin case at point B.
  6. Tighten screw A.

