Belt Tension Adjustment Instructions

for South Bend Underneath Belt Motor Driven Lathe

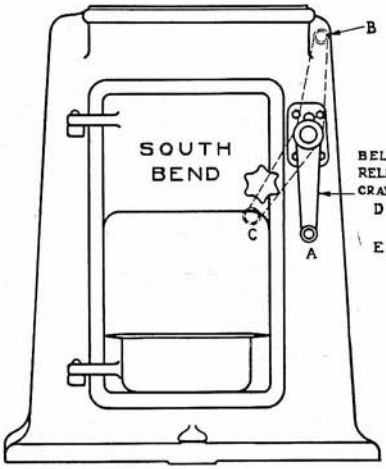

Fig.1

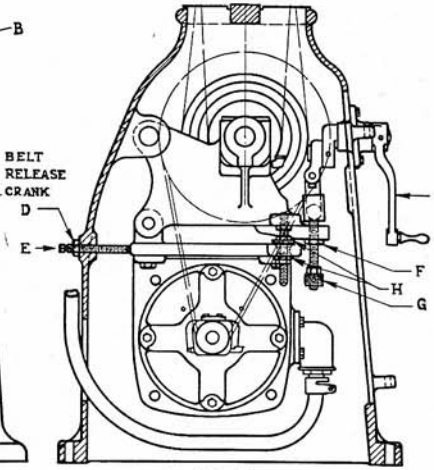

Fig. 2

Shifting the Cone Pulley Belt

To shift the belt, stop the lathe and lift the hinged cover over the spindle cone. Place the belt release crank in position "B," Fig. 1. When shifting from a large step of a spindle cone to a smaller one, place the belt on the desired step at the top. The weight of the belt will bring it to the proper step of the lower cone pulley. To shift from a small step of the spindle cone to a larger one, give the belt a slight swing from the top so the lower end of belt will swing under the step of the lower cone pulley, then lift the belt to the larger step of the spindle cone. Belt may be shifted without opening door.

Adjusting the Cone Belt Tension

To adjust the cone belt tension, (1) stop lathe; (2) loosen lock nut "D" (Fig. 2) and withdraw adjusting screw "E" (Fig. 2), located on rear side of cabinet leg; (3) with belt in position, move belt release crank from position "A" letting weight of motor drive assembly rest on belt; (4) loosen lock nut "F" (Fig. 2) and turn adjusting knob "G" (Fig. 2) until belt release crank is in position "C" (Fig. 1), then tighten lock nut "F" (Fig. 2); (5) place belt release crank in position "A" (Fig. 1); (6) reset adjusting screw "E" against cradle and tighten lock nut "D."

Adjusting the Motor "V" Belt Tension

The "V" belt tension should not be too tight, but just tight enough to transmit the full power of motor without slipping. When adjusting V-belt tension, loosen the bottom lock adjusting nut "H" and draw down the top adjusting nut "H" until tension on "V" belt is as just described, and then tighten bottom adjusting nut "H."

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