

## HOW TO MOUNT LATHE ON BENCH

1. SET THE LATHE ON BENCH TO DIMENSIONS SHOWN IN FIG. 1. SCRIBE AROUND INSIDE OF HOLES IN EACH LEG. REMOVE LATHE, DRILL BENCH FOR BOLTS, AND FASTEN LATHE TO BENCH.
2. SET COUNTERSHAFT ON BENCH. SEE FIG. 2. ALIGN COUNTERSHAFT WITH LATHE USING STRAIGHT EDGE FROM CONE TO CONE. SEE FIG. 4. SCRIBE AROUND INSIDE OF SLOTS IN BASE OF COUNTERSHAFT. REMOVE COUNTERSHAFT, DRILL BENCH FOR BOLTS, AND FASTEN COUNTERSHAFT TO BENCH.
3. PLACE BELT TENSION RELEASE LEVER "B" IN DOWN POSITION, AS SHOWN IN FIG. 3 AND ADJUST TURNBUCKLE "A" SO THAT THE ROD IS SCREWED INTO THE TURNBUCKLE AS FAR AS POSSIBLE.
4. ASSEMBLE BELT AROUND CONE PULLEYS. SEE "BELT SPLICING INSTRUCTIONS" FORM NO. 800.
5. PLACE BELT ON CENTER STEPS OF BOTH CONE PULLEYS AND ROTATE PULLEYS BY HAND. BELT SHOULD RUN IN CENTER OF PULLEY STEP ON BOTH CONE PULLEYS. IF IT DOES NOT, ADJUST THE ALIGNMENT OF THE COUNTERSHAFT SO THAT IT DOES.

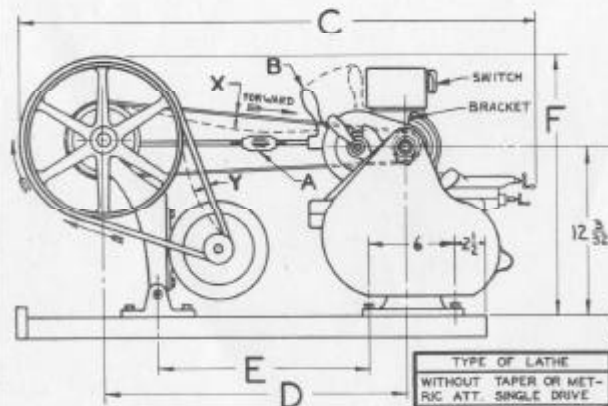


FIG. 2

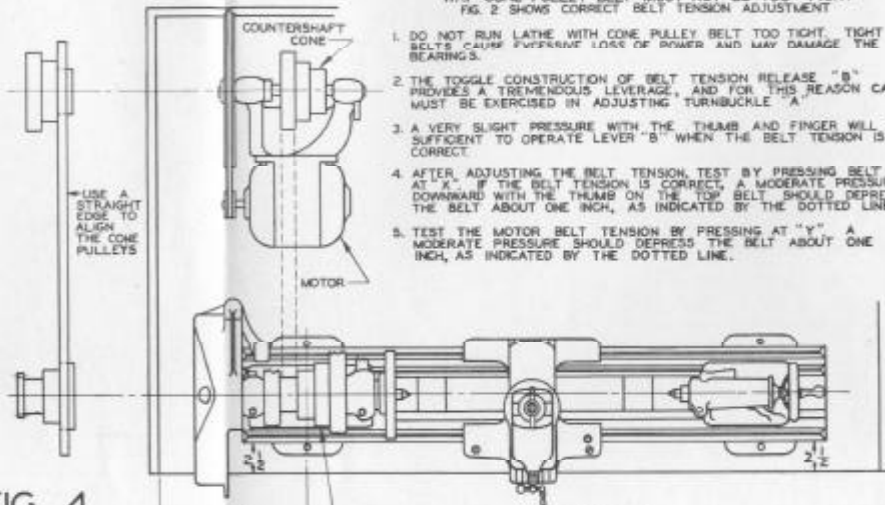


FIG. 4

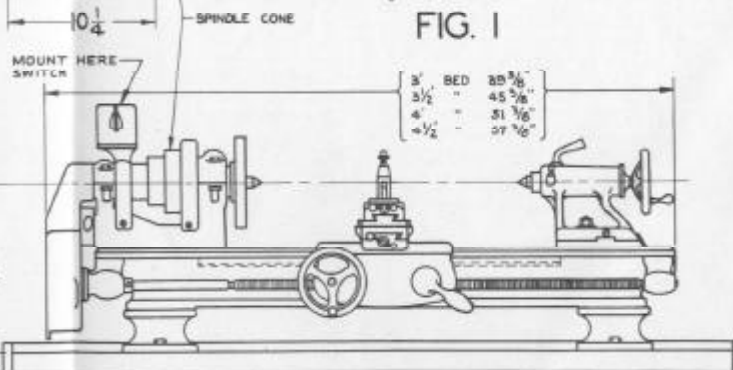


FIG. 1

TYPE OF LATHE	MOTOR	C	D	E	F
WITHOUT TAPER OR METRIC ATT. SINGLE DRIVE	1/4 OR 1/3 H.P.	52-3/4	18-1/2	10-11/8	18-3/8
WITH TAPER ATTACHMENT SINGLE DRIVE	1/4 OR 1/3 H.P.	34-1/4	18	12-3/8	18-3/8
WITH METRIC ATTACHMENT SINGLE DRIVE	1/4 OR 1/3 H.P.	35-1/4	19	13-3/16	19-3/8
WITH OR WITHOUT ATT. SINGLE OR DOUBLE DRIVE	1/2 H.P.	37	20-3/4	16-1/16	20-3/4

FIG. 3

## WHY CONE PULLEY BELT MUST NOT BE TOO TIGHT FIG. 2 SHOWS CORRECT BELT TENSION ADJUSTMENT

1. DO NOT RUN LATHE WITH CONE PULLEY BELT TOO TIGHT. TIGHT BELTS CAUSE EXCESSIVE LOSS OF POWER AND MAY DAMAGE THE BEARINGS.
2. THE TOGGLE CONSTRUCTION OF BELT TENSION RELEASE "B" PROVIDES A TREMENDOUS LEVERAGE, AND FOR THIS REASON CARE MUST BE EXERCISED IN ADJUSTING TURNBUCKLE "A".
3. A VERY SLIGHT PRESSURE WITH THE THUMB AND FINGER WILL BE SUFFICIENT TO OPERATE LEVER "B" WHEN THE BELT TENSION IS CORRECT.
4. AFTER ADJUSTING THE BELT TENSION, TEST BY PRESSING BELT AT "X". IF THE BELT TENSION IS CORRECT, A MODERATE PRESSURE DOWNWARD WITH THE THUMB ON THE TOP BELT SHOULD DEPRESS THE BELT ABOUT ONE INCH, AS INDICATED BY THE DOTTED LINE.
5. TEST THE MOTOR BELT TENSION BY PRESSING AT "Y". A MODERATE PRESSURE SHOULD DEPRESS THE BELT ABOUT ONE INCH, AS INDICATED BY THE DOTTED LINE.

No. EP-100

9 INCH HORIZONTAL  
ADJUSTABLE MOTOR DRIVE  
BENCH LATHE.

SOUTH BEND LATHE WORKS  
SOUTH BEND, IND.

MADE BY: S.B.W. TRADES BY: S.B.W.  
A. HANCOCK, ETC. A. HANCOCK, ETC.  
S. B. W. S. B. W. S. B. W. S. B. W.