

# **RBT5**

## Rotary Belt Tensioner Kit Instructions

For Use On The Following Fans:

**NBF60**

**NCF60**

The RBT5 Rotary Belt Tensioner Kit consists of a Rotary Belt Tensioner pre-assembled to a Tensioner Bracket, and a Hardware Package containing all required fasteners.

### ASSEMBLY INSTRUCTIONS

When using the tensioner with a NBF60 or NCF60 fan, the motor must be located at the bottom of the fan.

Remove the motor bracket from its shipping position. Turn it around and mount it to the uprights using the holes specified on Page 2. Next, mount the tensioner bracket to the upright using the holes specified on Page 2. Then proceed to the last page to finish assembly.

Make sure the motor is properly mounted to the motor bracket. The tensioner bracket is slotted for adjustment so that the tensioner pulley can be aligned with the driven pulley on the blade assembly. As shown in Figure 1 on the last page, make sure that all three pulleys are in alignment.

**TO SET THE TENSIONER FOR THE CORRECT BELT TENSION,  
SEE THE INSTRUCTIONS ON THE LAST PAGE.**



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# NBF60 AND NCF60 FANS

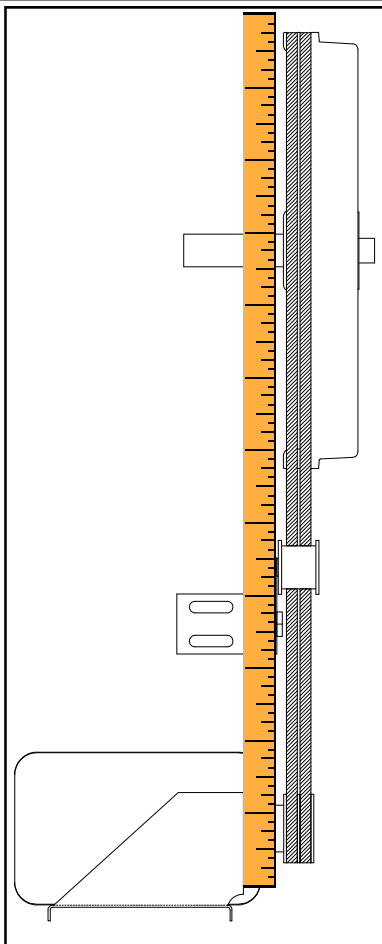


## **NBF/NCF60 with motor mounted at the bottom of the fan**

The motor bracket should be mounted to the fan uprights in the 3<sup>rd</sup> and 4<sup>th</sup> holes from the end of each upright, using the existing 5/16" hardware. The belt tensioner should be mounted to the right upright (when viewed from the rear) in the 7<sup>th</sup> and 8<sup>th</sup> holes from the end of the upright, using the 5/16" hardware supplied. Note: It may be necessary to adjust the motor bracket in its slots to achieve proper belt tension.

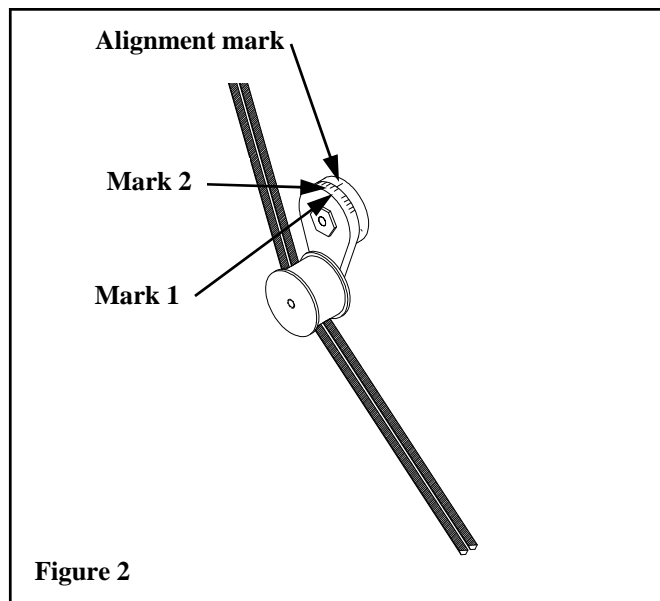
Once the motor bracket and tensioner bracket are in place, thread the belts over the motor pulley and the belt grooves of the blade assembly. The tensioner pulley should push against the backside of the belts, as shown on Page 2. Check to see that the motor pulley is aligned with the other two pulleys (see Figure 1). If necessary, adjust the position of the motor pulley on the motor shaft.

To achieve proper belt tension, loosen the 3/8" bolt holding the tensioner to the tensioner bracket. Then, using a 15/16" wrench, rotate the tensioner assembly such that the alignment mark is between mark 1 and mark 2 on the idler arm (see Figure 2). Tighten the 3/8" bolt securely. Turn the blade assembly by hand to insure free rotation. **Do Not Over Tension The Belt.** This will cause premature belt and bearing failure. To check that the belt tension is not too high, place a finger midway between the fan pulley and motor pulley and push inward about 1/2". The force required to do this **is not** to exceed 5 pounds.



**Figure 1**

Check for proper belt/pulley alignment with a straight edge, such as a yard stick or a piece of dowel rod.



**Figure 2**

For proper belt tension, the alignment mark should be between mark 1 and mark 2 on the idler arm.