

RBT1

Rotary Belt Tensioner Kit Instructions

For Use On The Following Fans:

NBF24

NBF30

AL24

AL30

The RBT1 Rotary Belt Tensioner Kit consists of a Rotary Belt Tensioner pre-assembled to a Tensioner Bracket, an A53 belt and a Hardware Package containing all required fasteners.

ASSEMBLY INSTRUCTIONS

To assemble the rotary belt tensioner to the fan, first determine the model and size of the fan it will be mounted on. There are specific instructions for each fan model and size. Also, determine whether the motor will be located at the top of the fan (typical for slope housing applications) or at the bottom of the fan (typical for square housing applications).

Next, go to Page 2 of these instructions. On that page, locate the correct picture based on the fan model and size, and the desired motor location. Following the instructions under that picture, assemble the motor bracket and the tensioner bracket to the fan uprights using the holes specified. 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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NBF24, NBF30, AL24 AND AL30 FANS



NBF/AL24 with motor mounted at the bottom of the fan

The motor bracket should be mounted to the fan uprights in the 1st and 3rd 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 9th and 10th holes from the end of the upright, using the 5/16" hardware supplied.



NBF/AL24 with motor mounted at the top of the fan

The motor bracket should be mounted to the fan uprights in the 1st and 3rd holes from the end of each upright, using the existing 5/16" hardware. The belt tensioner should be mounted to the left upright (when viewed from the rear) in the 9th and 10th holes from the end of the upright, using the 5/16" hardware supplied.



NBF/AL30 with motor mounted at the bottom of the fan

The motor bracket should be mounted to the fan uprights in the 2nd and 4th 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 8th and 9th holes from the end of the upright, using the 5/16" hardware supplied.



NBF/AL30 with motor mounted at the top of the fan

The motor bracket should be mounted to the fan uprights in the 3rd and 5th holes from the end of each upright, using the existing 5/16" hardware. The belt tensioner should be mounted to the left upright (when viewed from the rear) in the 8th and 9th holes from the end of the upright, using the 5/16" hardware supplied.

Note: On 24" fans only, it will be necessary to remove the original belt that came with the fan and replace it with the A53 belt included in the RBT1 kit. The old belt can be removed and the new one installed by slipping it over the blade tips one at a time.

Once the motor bracket and tensioner bracket are in place, thread the belt over the motor pulley, the tensioner pulley and the belt groove of the blade assembly. It may be necessary to push on the tensioner to get enough slack to thread the belt over the tensioner pulley. 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.

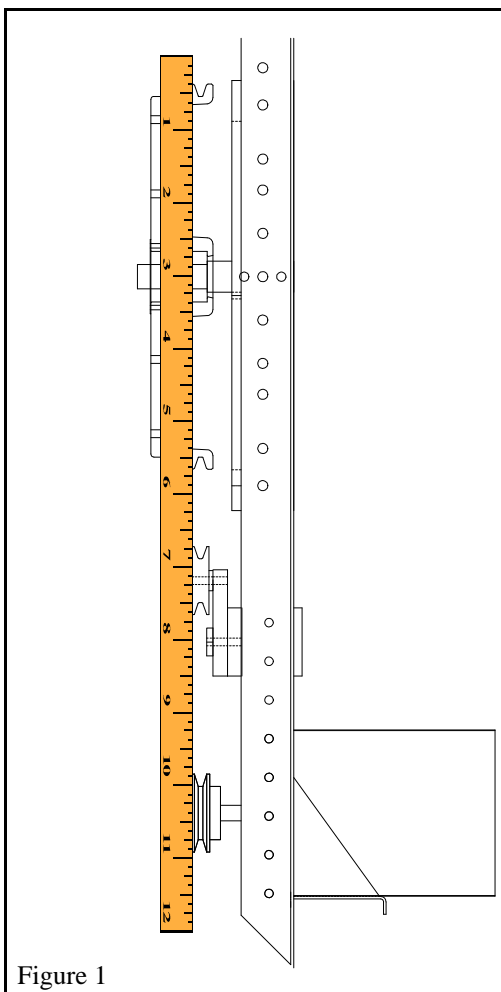


Figure 1

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

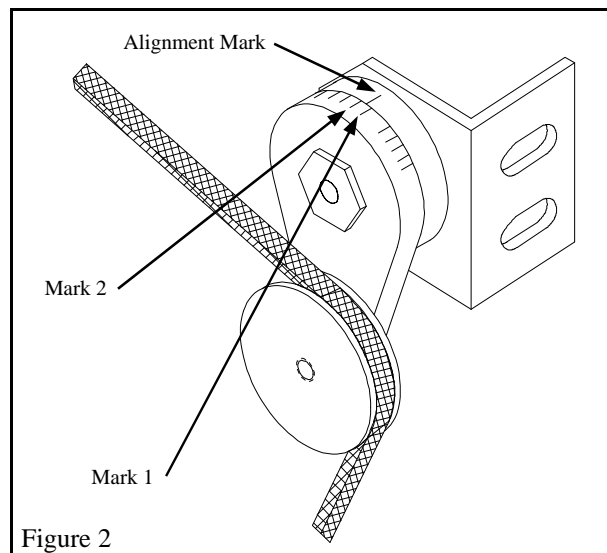


Figure 2

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