

RBT2

Rotary Belt Tensioner Kit Instructions

For Use On The Following Fans:

NEF36

NEFB52 , NEF54

NRRB52

NBCE52

NBF36 , NBF42 , NBF54

The RBT2 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

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 the page of these instructions that has the applicable fan model listed at the top. 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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NEF36 AND NEFB52 FANS



NEF36 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 7th and 8th holes from the end of the upright, using the 5/16" hardware supplied.



NEF36 with motor mounted at the top of the fan

The motor bracket should be mounted to the fan uprights in the 4th and 6th 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 7th and 8th holes from the end of the upright, using the 5/16" hardware supplied.



NEFB52 with motor mounted at the bottom of the fan

The motor bracket should be mounted to the fan uprights in the 3rd 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 7th and 8th holes from the end of the upright, using the 5/16" hardware supplied. Note: It may be necessary to slightly adjust the motor bracket in it's slots to achieve proper belt tension.



NEFB52 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 7th and 8th holes from the end of the upright, using the 5/16" hardware supplied.

NEF54 FANS



NEF54 with motor mounted at the bottom of the fan

The motor bracket should be mounted to the fan uprights in the 2nd and 3rd holes from the end of each upright, centered vertically, using the existing 5/16" hardware. The belt tensioner should be mounted to the left upright (when viewed from the front) in the 7th and 8th holes from the end of the upright, using the 5/16" hardware supplied. Note: It may be necessary to slightly adjust the motor bracket in its slots to achieve proper belt tension.



NEF54 with motor mounted at the top of the fan

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

NBF36 AND NBF42 FANS



NBF36 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 10th and 11th holes from the end of the upright, using the 5/16" hardware supplied.



NBF36 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 10th and 11th holes from the end of the upright, using the 5/16" hardware supplied.



NBF42 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 10th and 11th holes from the end of the upright, using the 5/16" hardware supplied.



NBF42 with motor mounted at the top of the fan

The motor bracket should be mounted to the fan uprights in the 4th and 6th 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.

NBF54, NBRB52 AND NBCE52 FANS



NBF54 with motor mounted at the bottom of the fan

The motor bracket should be mounted to the fan uprights in the 4th and 6th 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 11th and 12th holes from the end of the upright, using the 5/16" hardware supplied.



NBF54 with motor mounted at the top of the fan

The motor bracket should be mounted to the fan uprights in the 5th and 7th 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 11th and 12th holes from the end of the upright, using the 5/16" hardware supplied.



NBRB/NBCE52 with motor mounted at bottom of fan
(Note: This arrangement used for Damper Door Fans)

The motor bracket should be mounted to the fan uprights in the 3rd 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 7th and 8th holes from the end of the upright, using the 5/16" hardware supplied. Note: It may be necessary to slightly adjust the motor bracket in it's slots to achieve proper belt tension.



NBRB/NBCE52 with motor mounted at top of 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 7th and 8th holes from the end of the upright, using the 5/16" hardware supplied.

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.

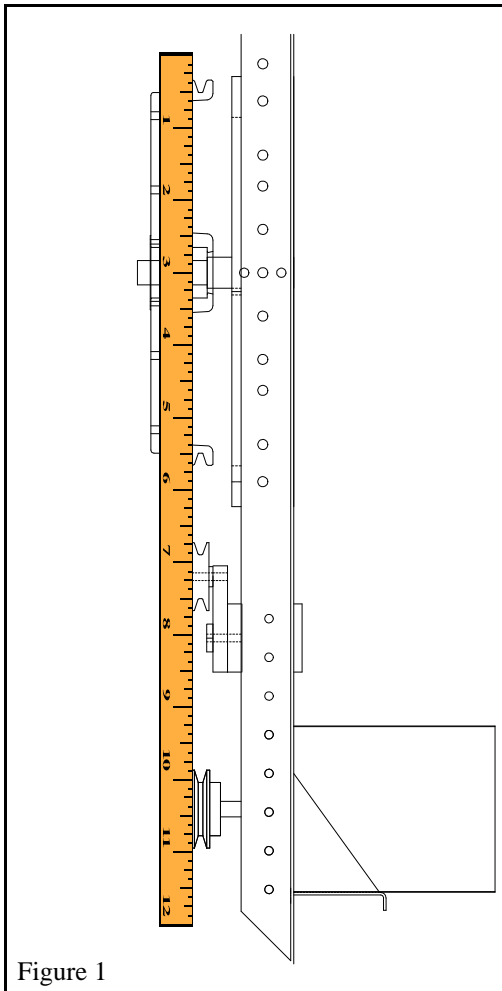


Figure 1

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

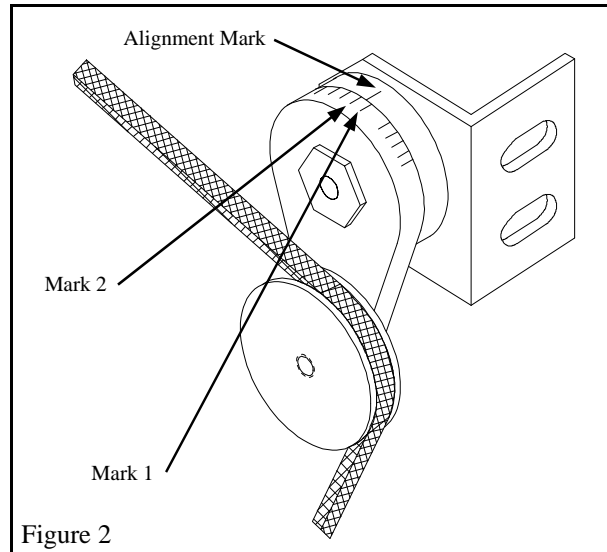


Figure 2

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