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NBR48-52 Auto Belt Tensioner Instructions Conversion Kit

NBR48L * NBR48M * NBR52K * NBR52L * NBR52M

WHAT SHOULD YOU FIND?

AX65 Belt, Tensioner Bracket with Tensioner, and Hardware Package

Motor and bracket moved up for using longer AX65 belt

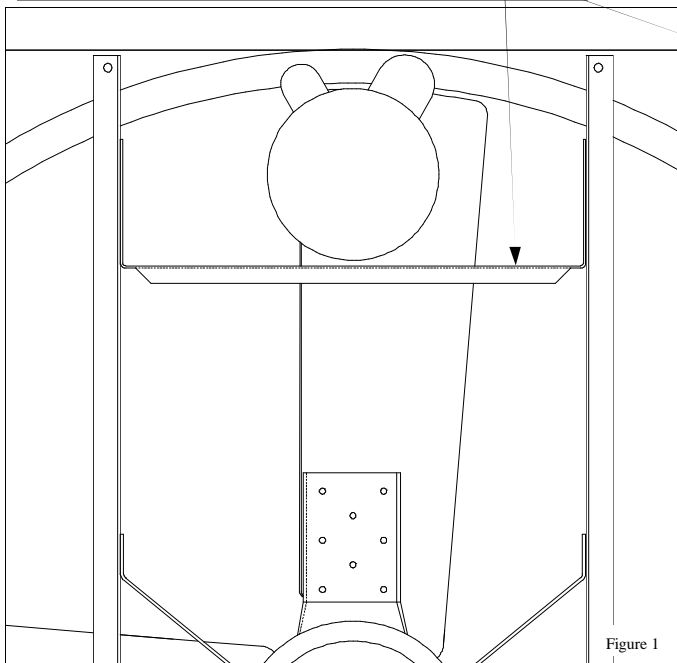


Figure 1

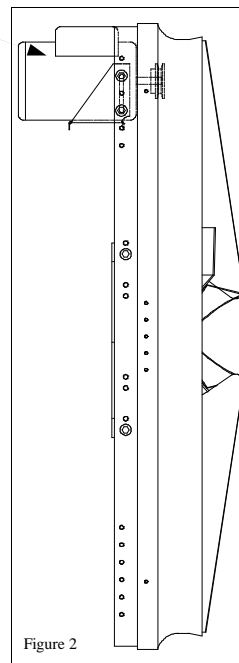


Figure 2

Caution: Make sure the power to the fan is disconnected before doing any type of maintenance.

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The first step is to remove the original belt as it will not be used. Instead, thread the new AX65 belt over the blade assembly.

Next, re-locate the motor and bracket. Remove the 5/16" bolts, washers and nuts and slide it toward the top of the fan so you can insert the 5/16" bolts in the second and fourth hole from the end of each upright (see Figures 1 and 2).

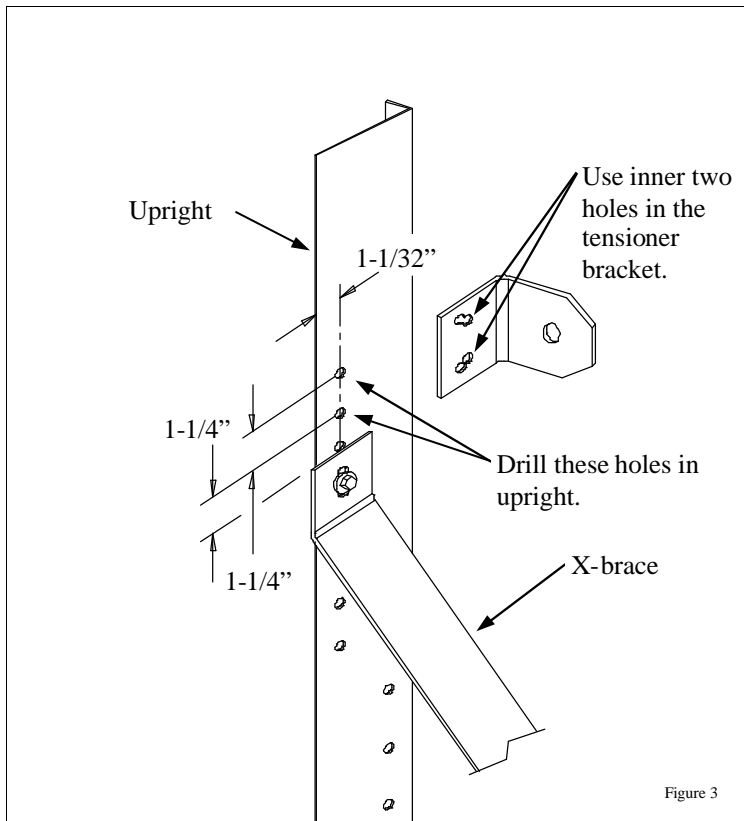


Figure 3

The next step is to measure out the locations where the two holes are to be drilled in the upright. When standing behind the fan, you will be adding two 11/32" diameter holes to the left upright. Mark a vertical line 1-1/32" from the back edge of the upright. From the top of the X-brace, the first hole will be 1-1/4" up, and the second hole will be another 1-1/4" up (see Figure 3). Drill the two holes in the upright with an 11/32" drill bit. Bolt the tensioner bracket to the upright using the 5/16" bolts, flat washers, lock washers and hex nuts provided. Note that the bolts will use the inner set of holes in the tensioner bracket.

Detail showing upright and x-brace of NBR fan where holes are to be added. Note: Tensioner not shown for clarity.

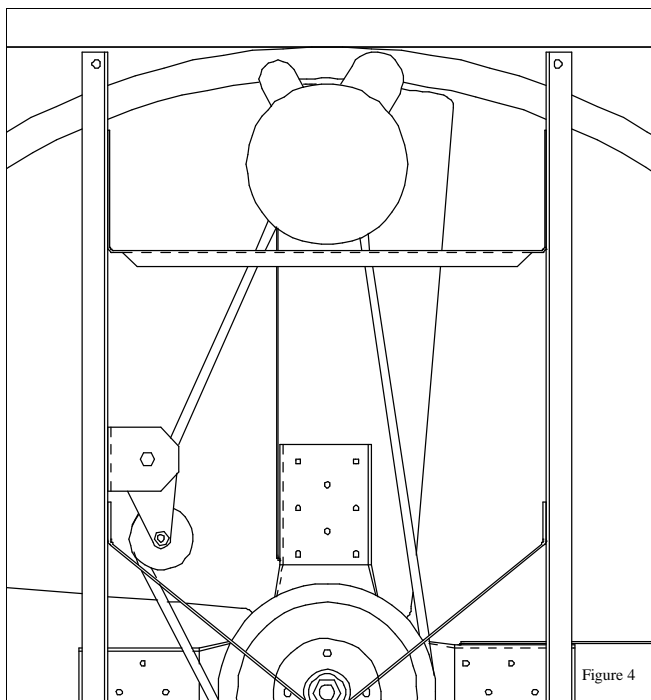


Figure 4

You now can thread the belt over the motor pulley and 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.

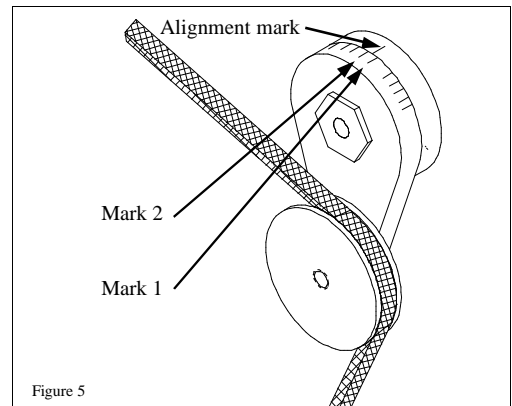


Figure 5

Proper tensioning is achieved by loosening 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 2 on the idler arm (see Figure 5). Re-tighten the 3/8" bolt. 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. Re-connect the power to the fan and test the fan for proper operation.