

Vanguard[™] Fan Retro-Fit Installation Manual

Installation

Disconnect power to the Fan before beginning installation.



Remove the Fan Screen or Shutter if applicable. Remove the V-Belt (Item 1, Figure 1) and throw it away. Take the Motor off by removing four Flange Nuts and Carriage Bolts (Items 2 and 3, Figure 2). Keep the Flange Nuts and Carriage Bolts for Re-installation of the motor to the new Z-Bracket. Remove the Z-Bracket (Item 4, Figure 3) by removing four Lock Nuts and Carriage Bolts (Items 4 and 3, Figure 3). Keep the four Carriage Bolts for installing the new Z-Bracket and *discard* the four Lock Nuts. Chore-Time recommends that you replace the Lock Nuts with new Flange Nuts.



Figure 1. Remove V-Belt

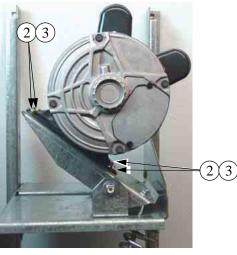


Figure 2. Remove Motor

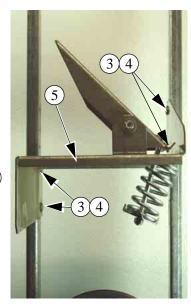


Figure 3. Remove Z Bracket

Item	Description	
1	V-Belt	
2	Flange Nut	
3	Carriage Bolt	
4	Lock Nut	
5	Z-Bracket	

Line up the single Mark on the innermost ring of the Tensioner (Item 1, Figure 4) with the Etched line that is on the Tensioner Bracket (Item 2) and attach the Tensioner (Item 3) to the Tensioner Bracket (Item 4) with the supplied 3/8 x 16 x .75 Bolt (Item 5) and Washer (Item 6).

Attach the new Z-Bracket (Item 1, Figure 5) to the right Motor Mount Post (Item 2) with two of the Carriage Bolts (Item 3) and Flange Nuts (Item 4) that were used to attach the old Z-Bracket. Note: Use the upper two holes in the Post. Attach the Tensioner Bracket (Item 5) and the new Z-Bracket to the Left Motor Mount Post (Item 6) with the other two Carriage Bolts and Flange Nuts that were used to attach the old Z-Bracket as shown.

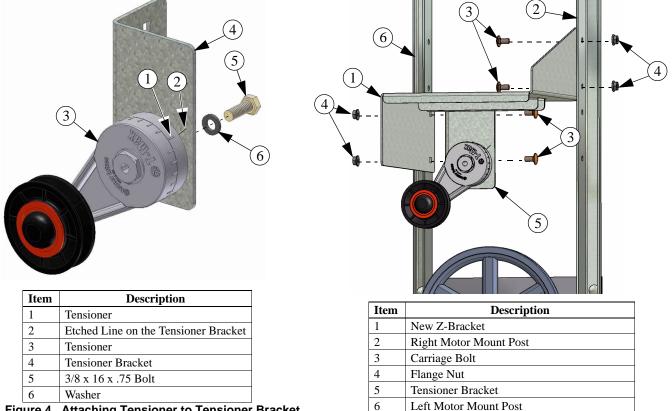
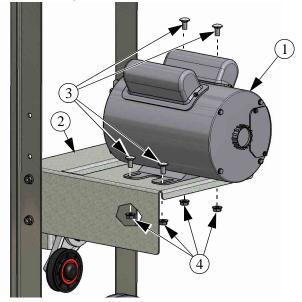


Figure 4. Attaching Tensioner to Tensioner Bracket

Figure 5. Attaching the Z-Bracket and Tensioner

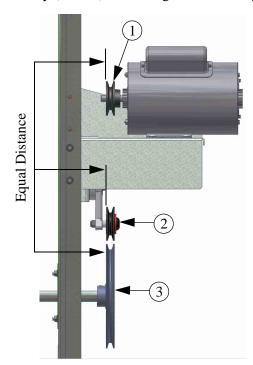
Attach the Motor (Item 1, Figure 6) to the new Z-Bracket (Item 2) with the Carriage Bolts (Item 3) and Flange Nuts (Item 4) that were removed earlier.



Item	Description	
1	Motor	
2	New Z-Bracket	
3	Carriage Bolt (Removed earlier)	
4	Flange Nut (Removed earlier)	

Figure 6. Attach Motor to new Z-Bracket

Check to make sure that the Motor Pulley (Item 1, Figure 7), the Tensioner Pulley (Item 2), and the Driven Pulley (Item 3) are all aligned. Do this by measuring from the Motor Mount Post as shown.



Item	Description	
1	Motor Pulley	
2	Tensioner Pulley	
3	Driven Pulley	



Install a new Belt (Item 1, Figure 8) as shown below in Figure 8. See Table 1 below for the correct Belt for the most common Pulley combinations. When the Belt is installed, the etched mark on the Tensioner Bracket (Item 2, Figure 9) should line up with the 3rd mark on the outer part of the Pulley Bracket (See Figure 9).

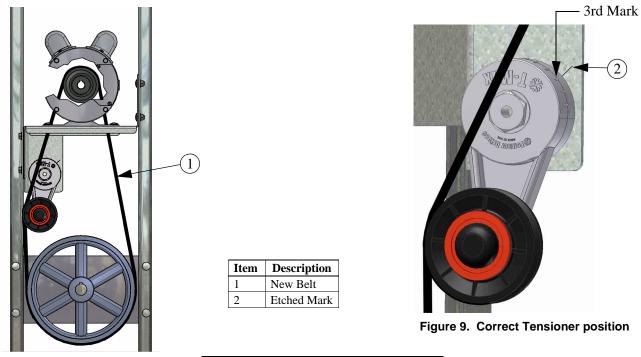
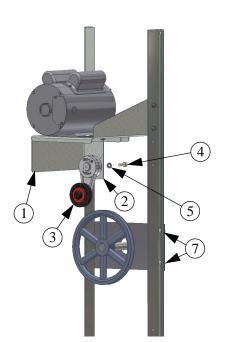


Table 1. Belt Type for Pulley Combinations					
Motor Pulley	Driven Pulley	Belt			
AK28	AK84	AX51			
AK30	AK94	AX53			

Re-install the Shutter, turn on the power, and test run the Fan.

Figure 8. Installing new Belt

Part Numbers



Item	Description	Part Number
1	Z-Bracket	50840
2	Tensioner Bracket	50841
3	Tensioner	48429
4	3/8 x 16 x .75 Bolt	39-20414
5	Lock Washer	5747
6	Belt (Not Shown)	See Table 1 (page 3)
7	5/16 Flange Nut	8490

Figure 10. Part Numbers position

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Revisions to this Manual

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Description of Change

New Manual

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