

# REPLACEMENT MOTOR INSTALLATION INSTRUCTIONS

**1** Power off the fan and unplug the unit from the power source.

**2** With a 5/16" nut driver and a drill, remove all visual screws from the back grille.



Eleven (11) visible screws will be removed in this process, with only one (1) screw remaining intact behind the wheel.



**Be advised that the housing may have sharp points near the screw holes that could cause injury.**



**Be sure to keep the rubber washers together with the screws as you remove them.**

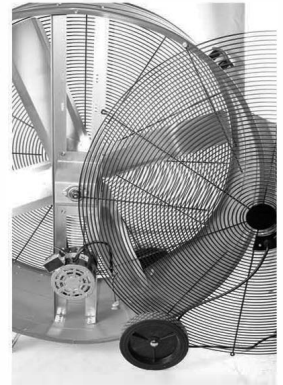
**3** Remove the red and black wires from the switch which are sitting in position 3 (closest to the grille center) and 1 (farthest from the grille center), respectively. One wire should remain in position 2 (the middle) and will not be removed.



Next, unplug the white wire situated below the switch. After this is done, you should have one black wire in position two on the switch, and one green wire below the switch intact.

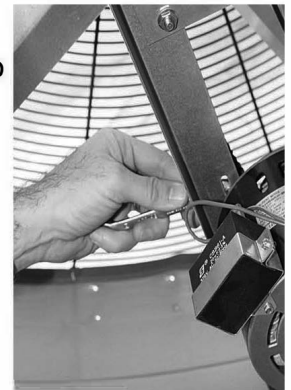
**4** Move the grille to the side and use one screw from the previous step to re-attach it to the housing.

This will keep the grille stable while you work on the motor.



**5** Loosen the bolts holding the motor to the struts using a 9 mm or crescent wrench. Do not remove the bolts completely.

Once bolts are loose, place your hand underneath the motor and raise it up, then slip the belt from the motor pulley.



*If desired, you may remove the front grille for this step so that you have better access for the belt removal.*

**TIP:** *Remove the front grille for this step so that you have better access for the belt removal.*

**6** Once the belt has been removed from the motor pulley, completely loosen the motor bolts and remove the motor from the struts.



*(turn over for steps 7-12)*

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**7** Take the new motor you wish to install and align it with the struts, being sure to have the wires facing upward for later use. Bolt the motor to the struts, hand-tightening the nuts.



**8** Check that the belt is already correctly positioned on the top pulley. Next, place your hand under the motor and lift upward. With your other hand, lower the belt onto the smaller pulley attached to the motor.



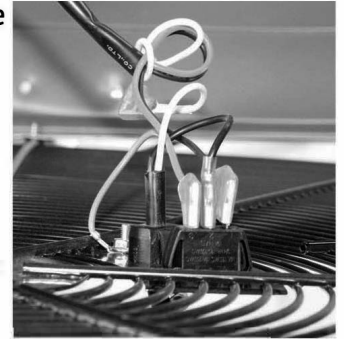
**9** Tighten the motor bolts securely.



**DO NOT** apply pressure to the motor to add belt tension. Allow the motor to settle naturally against the belt.

Spin the blades to ensure they do not come in contact with any part of the housing, and that the belt rotates evenly on the pulleys.

**10** Unscrew the grille from the housing and move the grille into the correct position. Reattach the wires. The white wire should connect to the second white wire. The red wire should plug into position 3 on the switch (closest to the grille center), while the remaining black wire should plug into position 1 (farthest from the grille center) on the switch.



**If you mis-wire the switch, the high setting will turn the fan to low speed, and the low setting will turn the fan to high speed.**

**11** Reattach the grille to the housing with the screws previously removed in step 2.

**Be careful not to strip the screws while reinstalling the grille. If you should strip a screw, use the extra #12 screws and washers provided.**



**12**

Plug in and test your fan to test that all components are functioning correctly.