

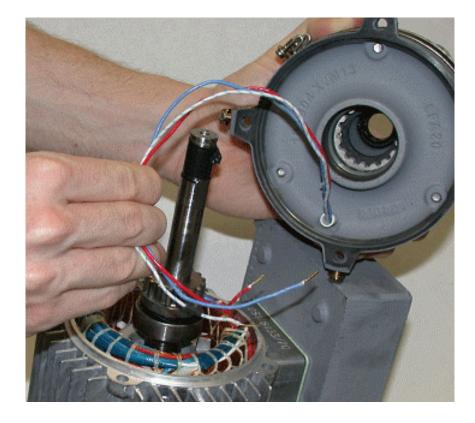


SEW Maintenance Series

Complete Brake Replacement

Objectives

- After studying the contained information you will be able to accomplish the following:
 - Perform the removal of the existing brake
 - Perform the installation of the replacement brake



Tools and Materials

- What you will need:
 - 1 10mm Nut-driver
 - 18mm Nut-driver
 - 1 Medium Philips Screwdriver
 - 1 External Snapring Pliers
 - 1 Dead-blow Hammer
 - 1 Cutting Pliers
 - 2 Flat-tip Screw Drivers
 - 1 Replacement Brake
 - 1 Roll of Electrical Tape



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Safety

Always follow the proper lockout/tagout procedures.



Make sure to use the proper safety equipment at all times.



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Step 1

Disconnect all power sources to the motor.



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Step 2

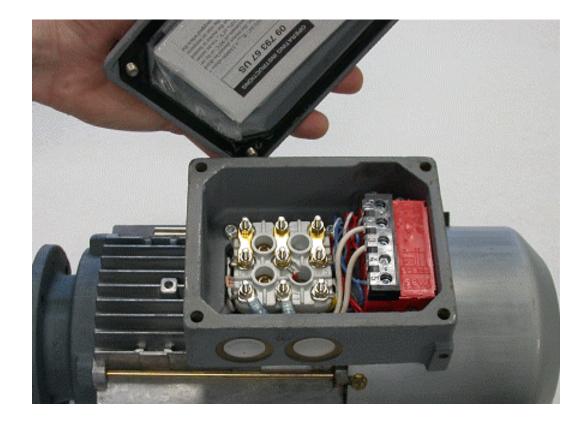
• Using the 10mm nut driver, loosen the 4 small screws that hold the conduit box cover into place.



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Step 3

• Remove the conduit box lid from the conduit box.



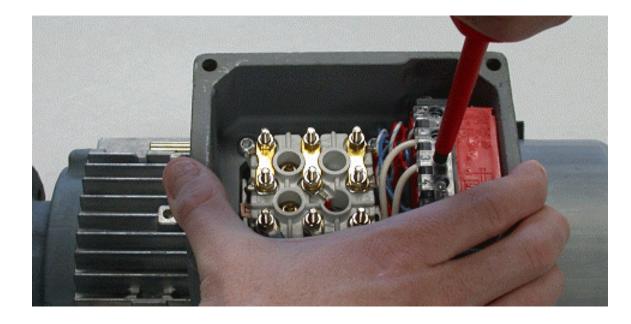
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Step 4

• Using a Philips screw driver, remove the three brake wires from the rectifier.



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Step 5

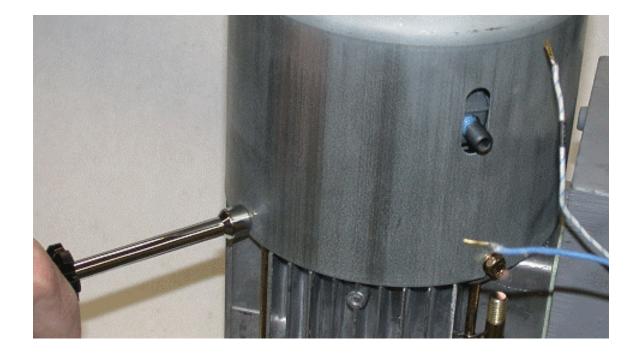
• After removing the brake wires, straighten them as shown in the picture.



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Step 6

• Using the 8mm nut-driver, loosen the 4 screws that hold the motor fan guard into place.



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Step 7

• Remove the fan guard from the motor.



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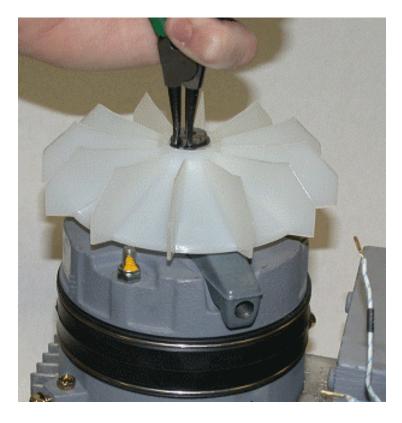
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Step 8

• Using the small snapring pliers, remove the snapring that secures the motor fan.

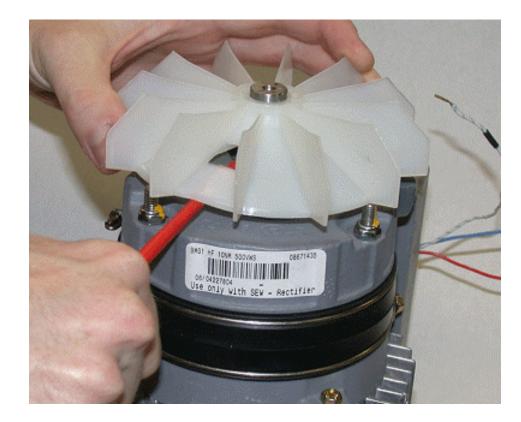


DRIVE ACADEMY

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Step 9

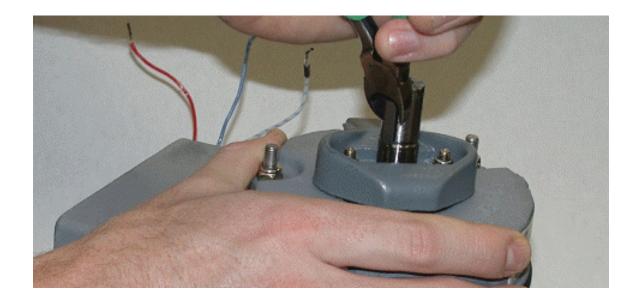
 With the flat-tip screwdriver, use a gentle prying action to remove the motor fan, using caution to not damage the fan.



Prod		

Step 10

• Using the cutting pliers, remove the fan key from the rotor.



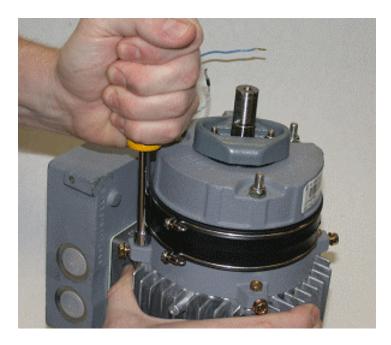
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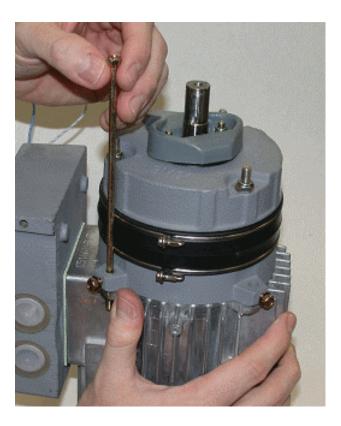
Complete Brake Replacement

DRIVE ACADEMY

Step 11

• Using the 8mm nut driver, remove the 4 motor tension rods.





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Step 12

• Wrap the rotor end with tape to prevent the keyway from damaging the brake seal.

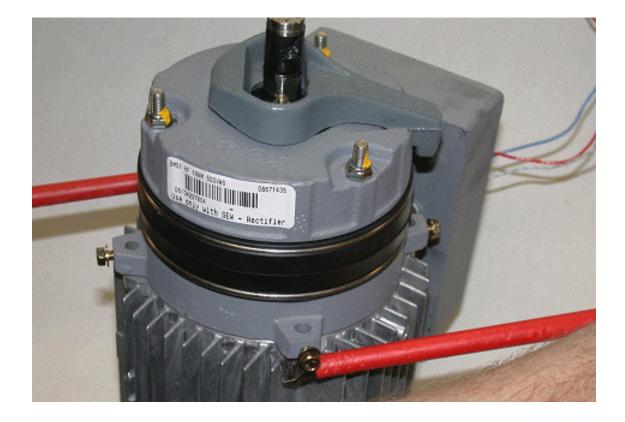


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Step 13

• Using both flat head screwdrivers, pry the brake away from the stator



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Step 14

 Using a dead blow hammer, lightly tap the end of the rotor shaft to completely disengage the brake from the rotor.

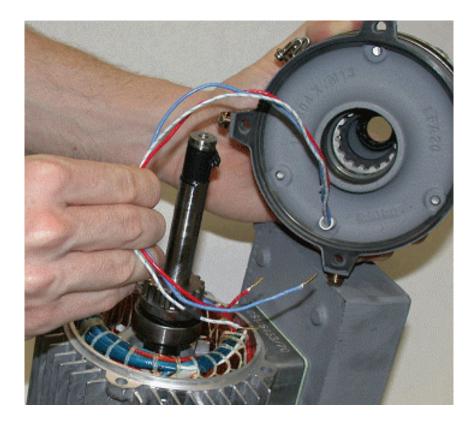


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Step 15

 Slide the brake completely off the rotor shaft, ensuring that the brake wires are completely removed from the motor.



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Step 16

• Using the **new** brake, wrap its wires with tape to protect them from damage during re-installation.

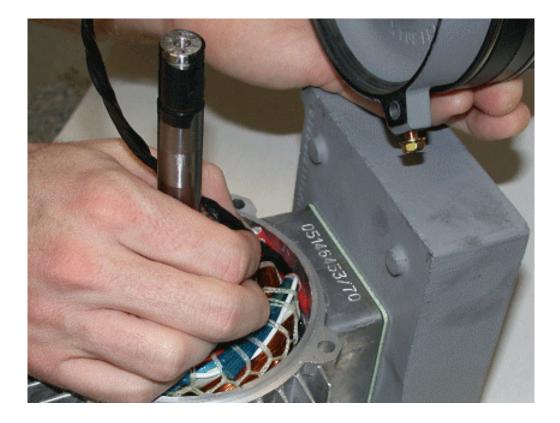


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Step 17

• Insert the brake wires into the relief of the stator and into the conduit box.



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Step 18

 Install the brake onto the rotor shaft while maintaining tension on the brake wires to avoid crimping them.



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DRIVE ACADEMY

Step 19

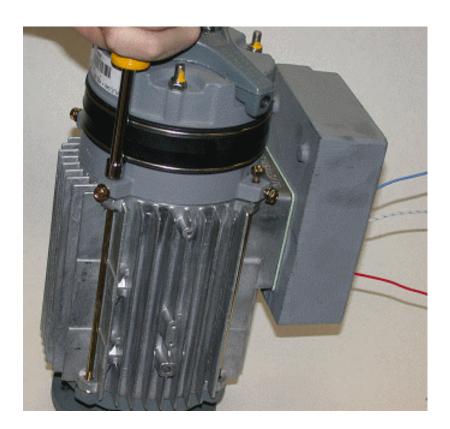
 Ensure that the brake release is aligned to its previous position so that the brake lever remains accessible when the brakemotor is placed back into operation.



Step 20

Insert the 4 tension rods into there respective positions. Tighten them using the 8mm nut driver.



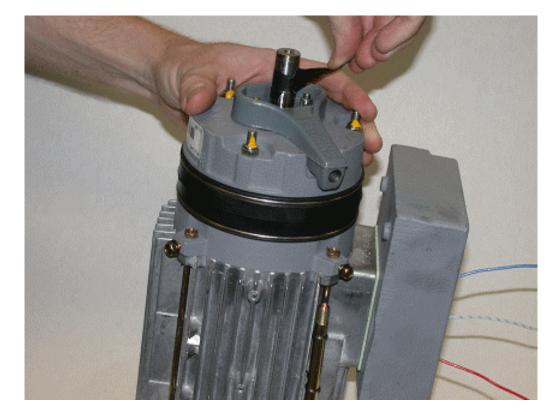


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Step 21

• Remove the protective tape from the end of the rotor shaft.

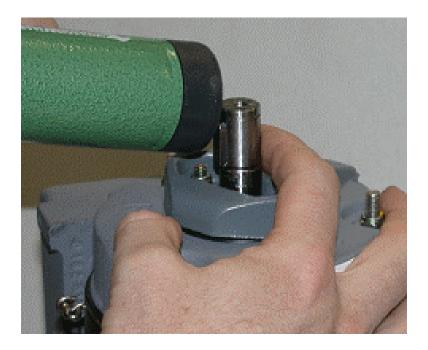


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Step 22

Insert the fan key and lightly tap it into place using the dead-blow hammer or rubber hammer.





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Step 23

• Install the fan onto the end of the rotor, ensuring that it seats completely.

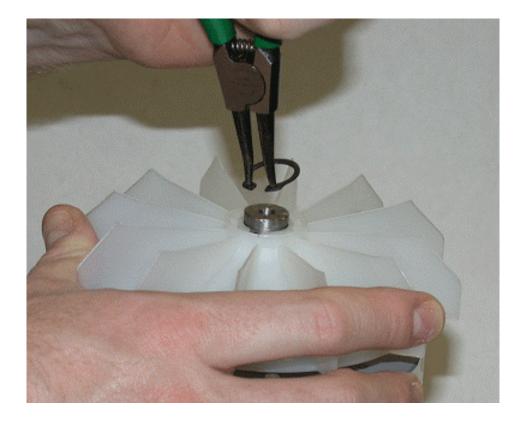


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Step 24

• Using the snapring pliers, re-install the snapring onto the end of the rotor shaft.



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Step 25

Install the fan guard, ensuring that the oval relief aligns with the brake release lever.



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Step 26

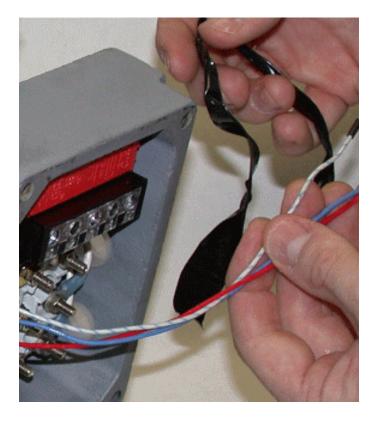
• Using the M8 nut driver, tighten the 4 screws that secure the fan guard.



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Step 27

• Remove the protective tape from the 3 brake wires.



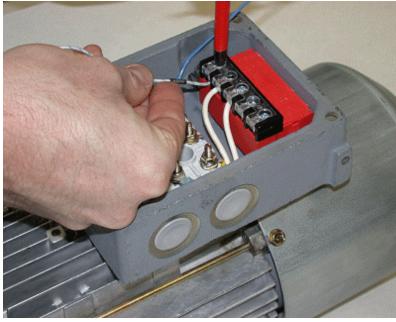
DRIVE ACADEMY

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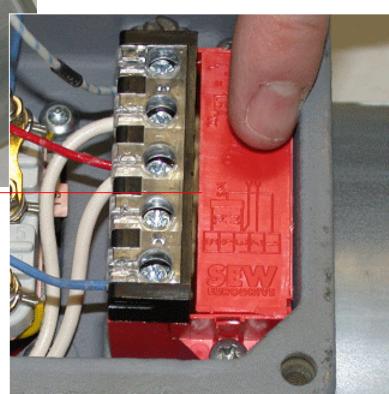
DRIVE ACADEMY

Step 28

• Using the Philips screw driver, install the 3 brake wires into the rectifier.



Refer to the wiring diagram found on the rectifier to determine the proper placement of the brake wires.

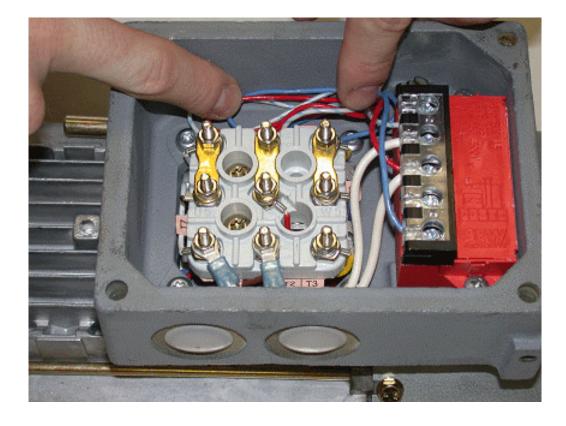


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Step 29

• Carefully wrap and tuck the wires out of the way of the terminal block.



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Step 30

• Reconnect the input power according to the diagram located on the inside of the conduit box cover.



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Step 31

Install the conduit box cover. Use the 10mm nut driver to tighten the 4 bolts.



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Step 32

• Reconnect power and confirm the proper operation of the brakemotor and attached equipment.



