

# How To CHANGE Your Vac Motor Brushes

Procedure for changing carbon brushes.

## Model 116336

### For Model 116336:

- Disconnect any motor from the power source before attempting any repair.
- Remove the cooling fan cover.
- Place a standard screw driver at a 45 °angle on the brush lead terminal and gently tap the flat-brass terminal out of the slot between the brush nylon and the brass tube.
- Remove the brush clamp screws with a Phillips screwdriver.
- Re-insert the brush clip between the nylon and the brass of the new brush and push in straight by hand. Use needle nose pliers to gently seat the clip. For the units with a blade terminal on the brass sleeve of the brush mechanism, push the connector on to the terminal.
- Place the replacement brush onto the comm-end bracket, making certain the positioning post on the bottom of the nylon is placed in the appropriate slot on the bracket.
- Reassemble the clamp and install the screws.



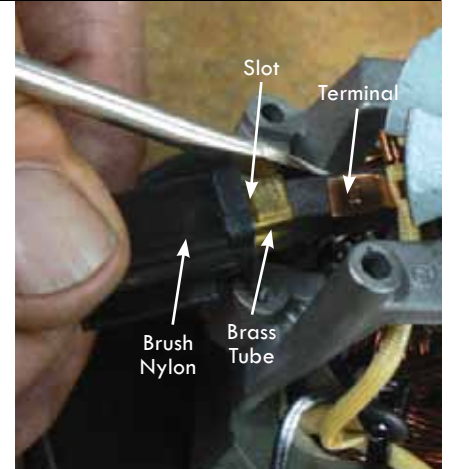
Use a regular screwdriver to pry loose the fan cover.



Remove the cooling fan cover.



Remove brush clamp screws with a Phillips screwdriver.



Gently tap or push the flat-brass terminal out of the slot between the brush nylon (plastic casing) and the brass tube.



Take your new replacement brush and push the flat-brass terminal into the slot between the brush nylon (plastic casing) and the brass tube.



Place the replacement brush onto the comm-end bracket, making certain the positioning post on the bottom of the nylon is placed in the appropriate slot on the bracket. Reassemble the clamp and install screws.



Pop the cover back on.

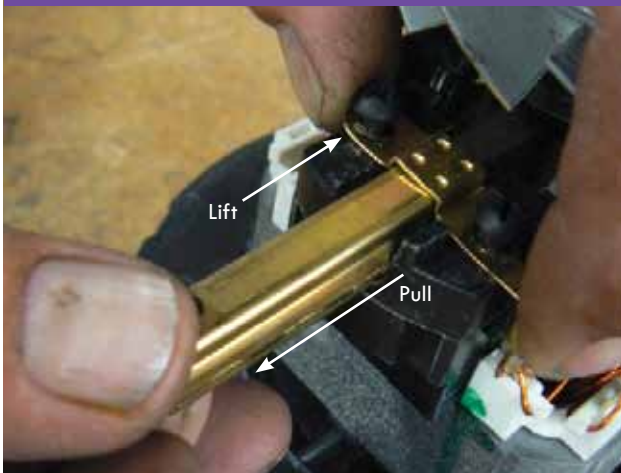
# Model 119414



Reach underneath the cooling fan cover and pull out and up to pop off the side catch, spin it around and do the same to the other side.

Lift up to remove the cooling fan cover.

Loosen brush clamp screws, you don't need to remove them all the way.



Lift up on the field terminal and pull the old brush out.



Insert your new replacement brush, making certain the positioning post on the bottom of the brass is placed in the appropriate slot on the bracket.



Tighten the screws back down and pop the cover back on. Don't over-tighten!

## For Model 119414:

- Disconnect any motor from the power source before attempting any repair.
- Remove the cooling fan cover.
- Loosen the brush clamp screws enough to disconnect with the field terminal and remove the old brush.
- Install the new brush making certain the positioning post on the bottom of the brass is placed in the appropriate slot on the bracket.
- Tighten the clamp screws and make certain the clamp terminal is connected to the field terminal. Do not over-tighten!

## WAIT! WE'RE NOT FINISHED YET!

- Ametek recommends running the motor at half voltage for 30 minutes to properly seat the new brushes to the commutator face. This will enhance the performance and overall life of the brush. If a variac or other voltage control device is not available, two motors may be run in electrical series. Connect one lead from each motor, using a wire nut. Connect the other two leads to the power source.
- After running the re-brushed motor for 30 minutes at half voltage, it can be run again at full voltage.