



In either mounting format, care must be taken to shield the motor in such a manner that the live electrical components and rotating parts are not accessible.

#### HANDLING

Vacuum motors must be handled only by the motor frame or fan case. Do not handle the motor by the lead wires as this could cause damage to the motor.

#### CONNECTION TO GROUND

The thru-flow vacuum motor must be insulated from the outside surface of any machine if it is a portable type and fed by a two-wire power supply. For motors installed in grounded applications, provision for grounding is provided. You should contact the appropriate regulatory agency for acceptable methods of connecting your machine to a ground or earthing point.

Do not use motor thru bolts or the screws that secure the brush holders to connect a ground wire. Some motors are equipped with a green hex grounding screw that is intended for this purpose. Never use other fastening locations for ground wires if a green hex screw is provided.

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You will be quoted a flat repair charge for the non-warranty repair of the motor.

Where brush change is required, the brushes should be changed BEFORE the brush shunt touches the commutator. On reassembly and handling, the lead wires must be kept away from rotating parts and motor frame.

To achieve best performance, the new brushes should be seated on the commutator before full rated voltage is applied. After brush change, apply 50% to 75% of rated voltage for thirty minutes to accomplish this seating.

**DIRECT APPLICATION OF FULL RATED VOLTAGE AFTER CHANGING BRUSHES WILL CAUSE ARCING, COMMUTATOR PITTING, AND REDUCED OVERALL LIFE.**

The motor will return to full performance after thirty to forty-five minutes of running at full-rated voltage. The motor must not be run with the vacuum air inlet sealed off.

If reduced voltage is unavailable, connecting two motors of similar rating in series for thirty minutes will accomplish the brush seating.