

INSTALLATION INSTRUCTIONS

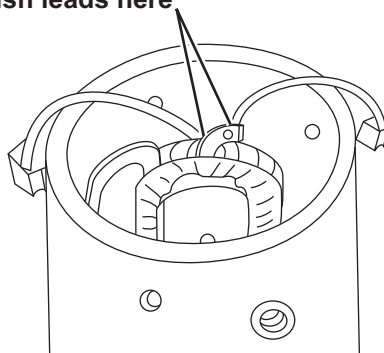
1. Lower blade, turn control OFF, disconnect electrical connections and detach the snowplow from the vehicle following instructions in the Owner's Manual.

2. Lay motor on its side. Remove the end cap and base flange.

Before removing the armature, make note of the number and position of washers on both ends of the armature shaft. Remove the armature.

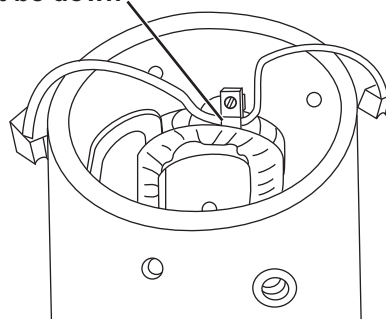
3. Remove three screws holding brush carriage to motor frame.
4. Lift brush carriage out of frame and push brushes out of holders. Set brush carriage aside.
5. Cut the brush leads as close as possible to the solder joint on the field winding tab.

Cut brush leads here



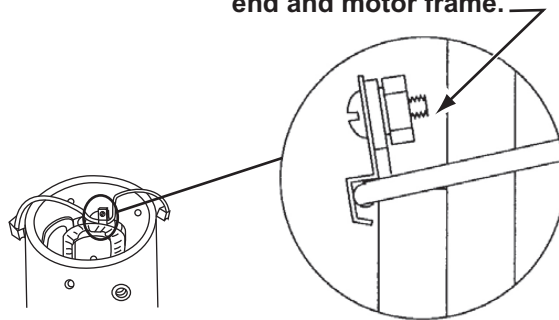
6. Using the furnished hardware, attach the tab in the middle of the two loose replacement brushes to the hole in the field winding tab. Install the machine screw through the brush tab and then through the field winding tab hole. Secure with the external tooth lock washer against the field winding tab and nut.

Brush tab must be down



NOTE: The brush tab must have the wires below the screw head. Gently bend the field winding tab away from the motor frame to provide 1/8" clearance. The field windings and brush tab screw or wires must not touch the motor frame or armature, when installed.

Bend field winding tab to provide 1/8" clearance between screw end and motor frame.



6. Without pushing the new brush carriage into the motor frame, position the brush carriage on top of the motor frame so that the brush carriage mounting holes will align with the mounting holes in motor frame. Rotate the springs to allow insertion of the loose brushes into the two empty holders on the brush carriage.
7. Take care to route the wires to avoid pinching and/or rubbing against the armature when assembled. Insert the brush carriage into the motor frame while aligning the brush carriage mounting holes.
8. Secure the brush carriage with the three furnished screws.
9. Push the brushes against the springs while assembling the armature into the motor frame.
10. Reassemble all the washers as removed from the armature shaft during Step 1.
11. Assemble the end cap and flange, if used, to the motor frame. Tighten the 1/4" x 6-1/4" thru-bolts to 55–65 in-lb. Use a flat blade screwdriver in the pump tang slot to check for easy rotation of the armature.

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