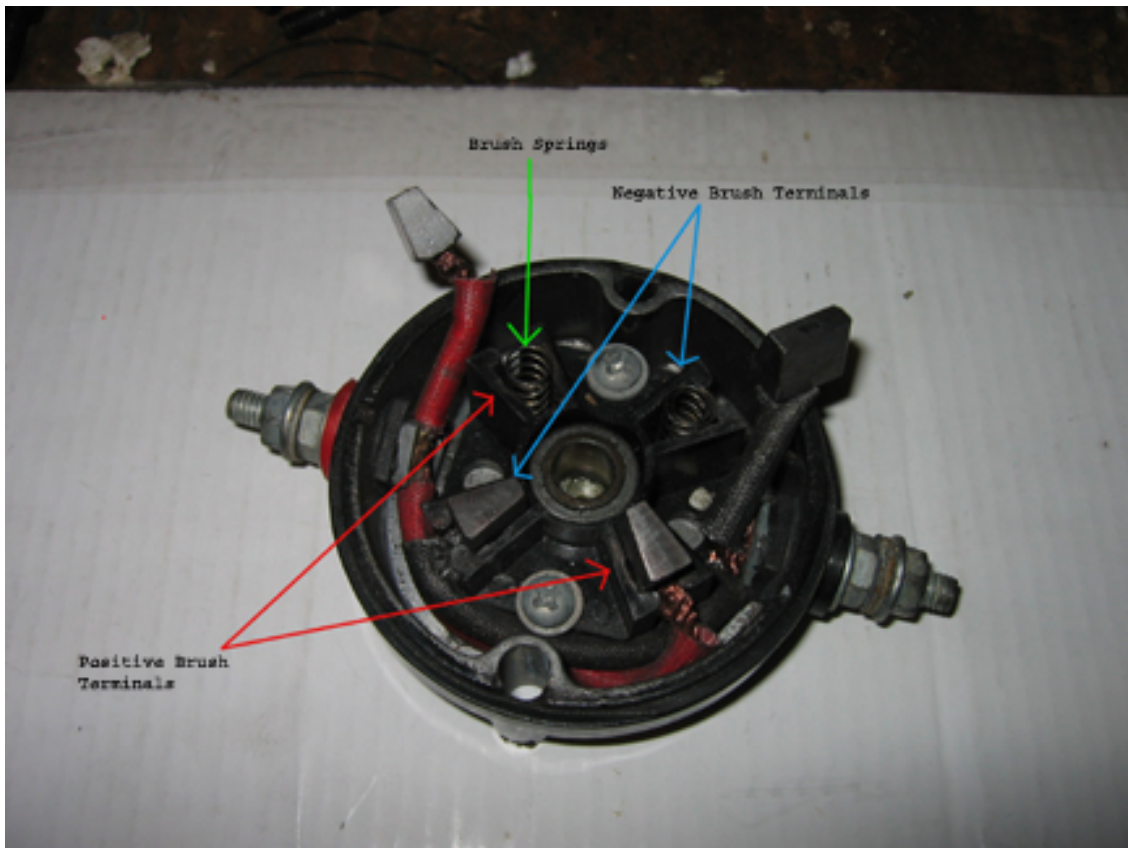


Motor Assembly Instructions

1. Remove motor brushes from plastic housing located inside motor cap.
2. Remove brush housing from cap by removing the 2 Philips heads screws.
3. Pull brush housing out of cap and clean any debris from it.
*Careful, the plastic cap breaks easily so take your time and don't be afraid to soak everything in lubricate for a while.
4. Unbolt the brush leads (studs) from the motor cap
5. Pull the brushes out of the cap and replace with new brushes if reusing the original cap. If you are using a new motor cap, put the new brushing in place before installing the plastic brush housing. There are short and long wires for both the red and black brushes, identical lengths should be on the same side of the cap as shown in Picture 1.



Picture 1.

6. Once the motor brushes are in place, install the brush housing.
7. Place new brush springs into each of the brush mounts.

8. Press brushes into the appropriate mounting slots as shown in Picture 1. It may be necessary to move the wire cover out of the way. If the brush doesn't stay in the mounting slot, place the brush over the hole and proceed to next step.
9. Put the new motor gasket on the cap
10. With the brushes in or close to the mounting slots take the new motor armature (without the magnetic housing) and install into the motor cap as shown in Picture 2.



Picture 2.

11. Once you have confirmed that all the brushes are in the mounting slots, you can slide the motor housing over the armature.
*Tip: Don't put the housing on in one move or the armature will lift out of the cap and you'll have to start over. Start by placing the housing over the armature just far enough to let your free hand push down on the shaft of the armature from inside the housing. Now you can slide the housing down over the armature.

- Align the motor bolt-holes in the cap with the gaps between the magnets in the housing.

