

Retrofit Instructions for the S-10805 Flexible Shaft Assembly

For more information on Freedom tools, contact your local dealer. When no local dealer is available, write: Freedom Electric Company, 16 Stony Hill Rd., Bethel, CT 06801, call (203) 792-8622, or email: customerservice@blackstoneind.com. Visit www.freedom.net for the latest information.

See video at: <http://www.freedom.net/S1080545.aspx>

You will need:

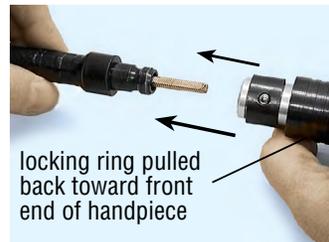
- Adjustable wrench with 1" opening minimum
- #2 Phillips screwdriver
- 3/16" slotted screwdriver
- 5/64" hex key
- 3/32" hex key

- 5/16" socket and wrench or nut driver
- 7/16" open end wrench or adjustable wrench
- Razor blade knife to slit label

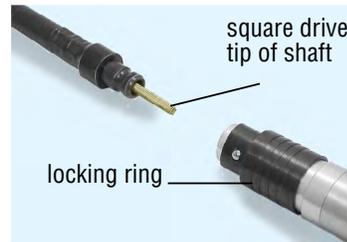
1. First disconnect the power cord. Make sure no electricity is connected to the motor motor of from the control.

2. Remove handpiece from sheath assembly.

shaft and handpiece connected



locking ring pulled back toward front end of handpiece



square drive tip of shaft

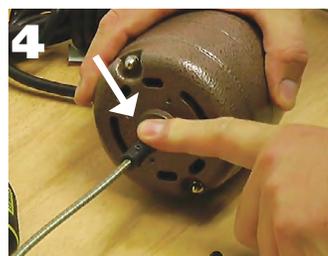
locking ring

3. Remove (4) flat head screws on motor hub and slide it away from the motor housing.

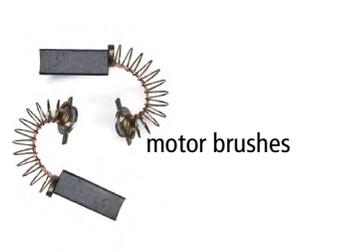


4. Loosen set screw on drive link extension with 5/64" hex key.

Remove flexible shaft from drive link extension and remove outer sheath assembly.



5. Remove the motor brush caps and then the motor brushes from the motor housing.



motor brushes

6. Remove the 2 acorn nuts from the bottom of the motor housing, and slide the housing apart.

Freedom label must be sliced in half to separate the housing.

(Do not touch commutator with bare fingers.)



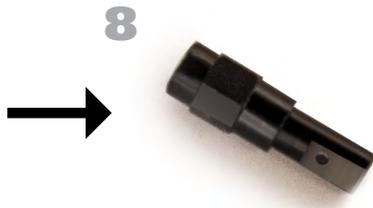
do not touch commutator

7. Wrap a clean cloth around the armature, then, holding the armature in the cloth, unthread drive link extension with a 7/16" wrench.

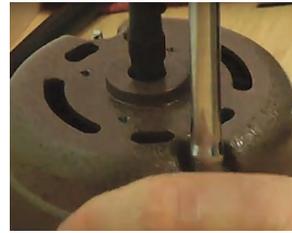
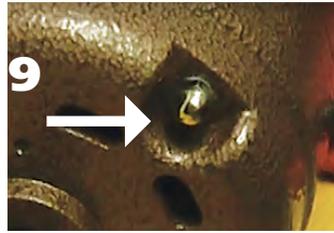


Continued on reverse

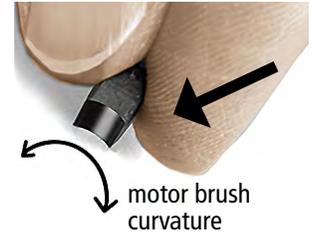
8. Replace the original drive link extension with retrofit extension and tighten.



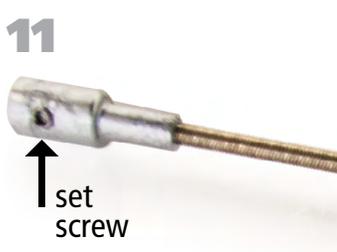
9. Wipe the commutator with clean cloth and reassemble the housing with the 2 acorn nuts. (Do not touch commutator with bare fingers.)



10. Reinstall the 2 motor brushes. Align the curvature of brush with the curvature of the motor.



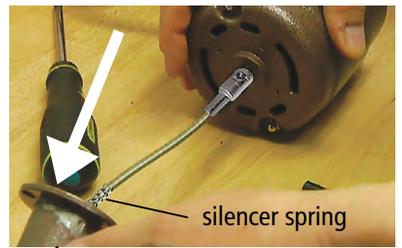
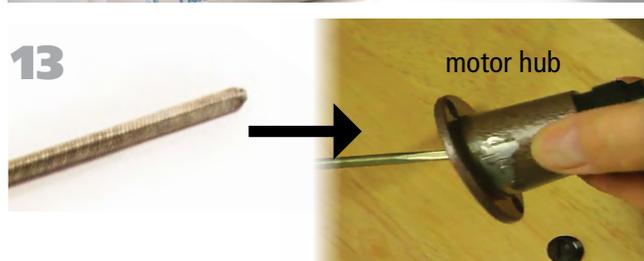
11. Install new flexible shaft with fitting onto retrofit extension so that it bottoms out. Align the set screw with flat side of extension and tighten with 3/32" hex key.



12. Apply a light film of Foredom grease MS10006 to flexible shaft assembly stopping 1-ft. short of the handpiece end.



13. Bronze silencer spring should be inside the sheath assembly. Thread the new shaft into the motor hub and through the outer sheath assembly.



14. Attach hub with onto the motor housing with 4 flat head screws.



15. Finally, reconnect the power cord, hang up and run the motor without the handpiece for two minutes so that excess grease can drip off and be discarded. Turn off the motor and wipe off the excess grease from the shaft. Reconnect the handpiece.

