



### ***General Care for Your New eXcellon DC Motor & Tachometer***

Because we care! Here are routine maintenance items that should be performed to ensure longevity of your recently purchased motor and/or tachometer:

#### **Inspection and Replacement of Brushes**

- Inspect brushes after each 1,000 hours of operation.
- A used brush, if serviceable, should be put back into the same holder and same position relative to the holder as before.
- Replace any original brush assembly with a new one if:
  - the brush is cracked or broken;
  - the contact face is chipped to the extent that less than seven-eighths of the surface remains effective;
  - if worn to the extent that the length is approaching the limit of ¼ inch;
  - the shunt is broken or frayed;
  - the spring is distorted.

If one brush needs replaced, it is a good practice to replace all in your product. When brushes require replacement, it is recommended that only brushes obtained from eXcellon be used.

#### **Commutator Care**

- Inspect the commutator during each inspection of brushes.
- Commutator bars should not be pitted, burnt, or grooved. If commutator bars are deeply pitted or grooved in the brush track, please contact eXcellon for assistance.

#### **Bearing Care**

- The bearings are prelubricated with sufficient grease for the life of the bearings. No further lubrication is required during operation.
- Check bearings after 5,000 hours of operation or sooner if motor is opened for other maintenance.
- Check bearings by turning them with your fingers. Feel for binding or gritty effects and for excessive looseness or wobble. If any defect is apparent, or if there is any doubt at all as to serviceability of the bearings, replace them with new ones (sold by eXcellon).
- Pull old bearings by means of a suitable bearing puller. Press new bearings into place by means of an arbor that exerts pressure on the inner ring only.

The above instructions are not intended to cover all details, nor provide for every possible contingency in connection with installation, operation or maintenance. For further assistance, please contact eXcellon DC Motors & Tachometers, formerly General Electric Products.