



OEM Installation Guidelines and Best Practices for



Bearing Protection Kits

When installing a Bearing Protection Kit (BPK) to protect motor bearings or other equipment susceptible to discharges as a result of Common Mode or other sources, several guidelines must be followed to ensure the kit is installed correctly for optimal life and performance.

For ALL Installations:

- Ensure that the brush track is clear from any key, keyway, oils, debris, etc.
- Ensure the shaft has a surface finish between 8 and 63 RMS (standard motor shaft finish).
- Verify the electrical/mechanical ground connection between the motor and drive is secure and uninterrupted. Verify that the motor is properly connected to ground per NEMA standards.
- Adjust kit until perpendicular to shaft, use the red Retaining Clip to set shaft-to-BPK distance.
- When an insulated bearing is used, the BPK should be installed on the opposite end of the motor from the insulated bearing.
- Thread lock is okay to use if there is an electrical connection maintained between the mounting bolts and the motor frame.

Upkeep and Maintenance Recommendations:

It is recommended to do a visual follow-up inspection of the Bearing Protection Kit when the motor is put into service to ensure all the recommended installation guidelines were followed.

- Visually inspect the brush track to verify the brush is making uninterrupted contact with the motor shaft.
- Routine visual inspection of the kit is recommended as part of the customer's routine maintenance schedule.
- If the motor is idle for extended periods, rust or other contaminants could form on the motor shaft. Remove rust, oils or other contaminants that may have formed in the brush track before the motor is put back into service.

For harsh or extreme applications, please contact Helwig Carbon for application-specific recommendations.