

## KDE DIRECT SERIES PERFORMANCE BOOM SUPPORT ASSEMBLY

The Performance Boom Support Assembly encompasses a series of specialized design features targeted at preventing the problematic loosening and resultant failure (telescoping) of the critical Tail Boom Supports of the 450 to 800-class Electric and 30 to 120-class Nitro helicopters. Due to the caustic and high-frequency vibrational environment of the RC helicopter, these upgrades are a necessary enhancement to maintain the structural integrity and performance of the helicopter tail mechanics and control.

### VIBRATION-RESISTANT CONSTRUCTION

The assembly utilizes multiple design aspects to provide the strongest and highest vibration-resistance capability, including these critical attributes:

- (1) Aerospace-grade epoxy bond between all critical components; providing a high-shock resistant and ultra-strength joint (Hysol® E-120HP).
- (2) Internally-threaded set-screw in the Aluminum Boom Support Ends provide a 360° surface bond to the carbon-rod interior for extreme strength.
- (3) Socket head cap screw and permanent thread and/or locknut retainer threaded perpendicular to the carbon-rod axis for further protection against loosening.

### ALUMINUM 6061-T6 BOOM SUPPORT ENDS

Design incorporates precision CNC-milled support ends; providing a vibration-resistant and secure hold to the boom and frames, without worry of failure or cracking due to extended use and repetitive cyclic loading.

