

## Instructions For Carbon Fiber Tail Booms #0587-1 thru 0587-6

#0587-1,-2,-3

### Installation of Pod and Boom type Booms.

- Step I. - Remove the entire tail boom section from the main mechanics, including the front tail boom supports #0185. Disassemble all boom support components, push-rod guides, fin components, Tail Transmission, and drive shaft components from the tail boom.
- Step II. - Before reassembling the removed components from Step I, trail fit the following parts onto the carbon fiber tail boom; #0447 plastic T/R control rod guides, #0479 plastic mount for horizontal fin, #0487 vertical fin mounts, and #0683 rear fin and transmission mount (X-Cell 30/40). It is possible that over time these parts may have expanded. If a tighter fit is necessary it is easily accomplished by first marking the correct position of each component on the tail boom. Then wrap the marked area with one layer of normal sewing thread and glue with cyano. Trail fit and repeat with thread if necessary. Complete reassembly of entire tail boom section.
- Step III. - Trail fit and align the completed tail boom section into the main frames. Tighten until Snug the front tail boom clamp bolts and mark the tail boom at the back edge of the boom clamps #0185. Remove the tail boom and apply slow cyano on the tail boom ahead of the mark just applied. A small amount of glue around boom will be all that is necessary. Quickly reinstall the boom into the front plastic boom clamps #0185 and align to the mark as necessary. Securely tighten and wipe away any excess glue.
- Step IV. - Re-check for tightness of boom and all components. At this time it will be necessary to change the C.G. of the helicopter due to a lighter tail boom.

#0587-4,-5,-6

### Installation of Fuselage Tail Booms

**NOTE: ALIGN ALL COMPONENTS INTO FUSELAGE BEFORE ANY GLUING.**

- Step I. - Due to the reduced O.D. size of the three ply carbon fiber booms it will be necessary to enlarge the area's under all the components mounted onto the outside of the tail boom. Provided with the tail boom is shrink wrap. Cut appropriate sides to fit under the front tail boom clamp #0185, tail rotor push rod guides #0477 and the rear transmission mount #0683 (optional recommended mount). Cyano glue in position and shrink with a heat gun.
- Step II. - The use of the optional tail transmission mount #0683 is recommended. Mount the tail transmission wood bulkhead between the tail rotor transmission and the opt. mount #0683.
- Step III. - As described in the Pod and Boom style carbon fiber boom instructions. Cyano glue the front tail boom into the #0185 boom clamps.

#### **Special note for all installations.**

As added security it is suggested that a #0025 (M2.2x6.5) self tapping screw be installed through the #0683 mount, the boom, and into the transmission. The hole should be a diameter of 1.6 - 1.9mm (.062 - .074") and located 7.0 - 8.0mm from the front edge of #0683 (on the mold seam line) anywhere around it's diameter. Do not use any screw longer than 6.5mm.

