ASSEMBLY INSTRUCTIONS FOR INJECTION MOLDED FAI PADDLES #0561-5

Parts Supplied:

4	#0051 M3x3 Set Screws
2	#0561-6 Flybar Paddles Main Section
2	#0561-7 Flybar Paddle End Caps
2	#0561-8 Flybar Paddle Plastic Inserts
2	#0561-9 Flybar Paddle Aluminum Safety Locks
2	#0561-10 Flybar Paddle Lead Weight Thick, 44mm (5.8 grams)
2	#0561-11 Flybar Paddle Lead Weight Thick, 65mm (8.6 grams)
2	#0561-12 Flybar Paddle Lead Weight Thin, 65mm (5.7 grams)

Additional Requirements:

80 grit Sand Paper
Thick Cyano Glue
Thin Cyano Glue
Gram Scale (Optional)

A. NOTE: Before assembling the paddles it will be necessary to choose the over-all paddle weight desired by the number of lead strips used to achieve a desired flying characteristics.

The following characteristic may be expected with the installation of the lead strips:

- With no lead (total weight approximately 24.0 grams) - Crisp control with fast cyclic authority.
- With single strip of large lead mounted in insert (total weight approximately 32.0 grams) - Crisp control will remain with increased stability.
- With two strips of large lead , one mounted in the insert and the other mounted on the leading edge of the insert. (total weight approximately 40.0 grams) - Excellent hovering control with increased forward flight stability. Enhancing smooth and precise FAI type aerobatics.
- With three lead strips (total weight approximately 45.0 grams) - Extreme hovering stability. Slow and precise aerobatic maneuvers.

: **Assemble both paddles simultaneously.**

B. Remove all the sections of lead #0561-10, 0561-11, 0561-12. Roll the lead under a sanding block using 80 grit sandpaper until they are flat and thoroughly roughened. Select the shortest piece of lead #0561-10 (44mm) and press it completely into the slot in the plastic insert #0561-8, thin cyano in place.
Using 80 grit sand paper roughen the entire surfaces of the plastic inner insert 0561-8. Slow cyano glue the desired amount of lead #0561-11 and #0561-12 onto the leading edge of the plastic insert. If both pieces of the lead are used glue the thick section of lead #0561-11 on first. Carefully line up the lead pieces with the plastic insert and allow to dry. Slightly shape sand the leading edge of lead and any excess glue until the assembled plastic paddle insert will slide inside the paddle main section, #0561-6.

C. With 80 grit roughen up the internal surfaces (as best you can) of the paddle main section #0561-6 and the paddle end cap #0561-7. Slide the assembled insert #0561-8 into the main paddle section until the hole in the insert and the paddle for the aluminum safety lock aligns. If this does not align, sand the lead until alignment is achieved. Re-install the plastic insert.

Align the un-threaded hole in the aluminum safety lock #0561-9 in-line with the Fly-Bar insertion hole in the plastic paddle. Press and center the safety lock into the paddle. Wick thin zap around the protruding end of the plastic inner sleeve #0561-8. Wipe away any excess glue.

NOTE: If a gram scale is available weigh both paddles including the end caps #0561-7, to determine if they are matching in weight. If correction is needed, drill small holes in the end of the plastic insert or add weight to the inside of the end caps. (Glue the end caps in place, only if a gram scale was used. If a gram scale is not available, proceed with the next step).

D. From each end of the flybar measure in 37mm and place a mark (masking tape works very well). Thread each flybar paddle up to the marks. Study drawings for correct paddle orientation.
NOTE: If a gram scale is not available, the flybar system will need to be checked for balance. Temporarily snap the end caps in place. Un-snap any ball links connected to the flybar system and check the flybar for a level balance. If incorrect alter paddles as described in section ("D-NOTE"). After all corrections above have been made the end caps may be glued in place. Final balance of completed paddle may be achieved by using a small piece of black tape on the paddles leading edge.

E. Thread two #0051 M3x3 set screws into each aluminum safety lock. Align each flybar paddle as necessary. Loctite and secure each of the M3x3 set screws.