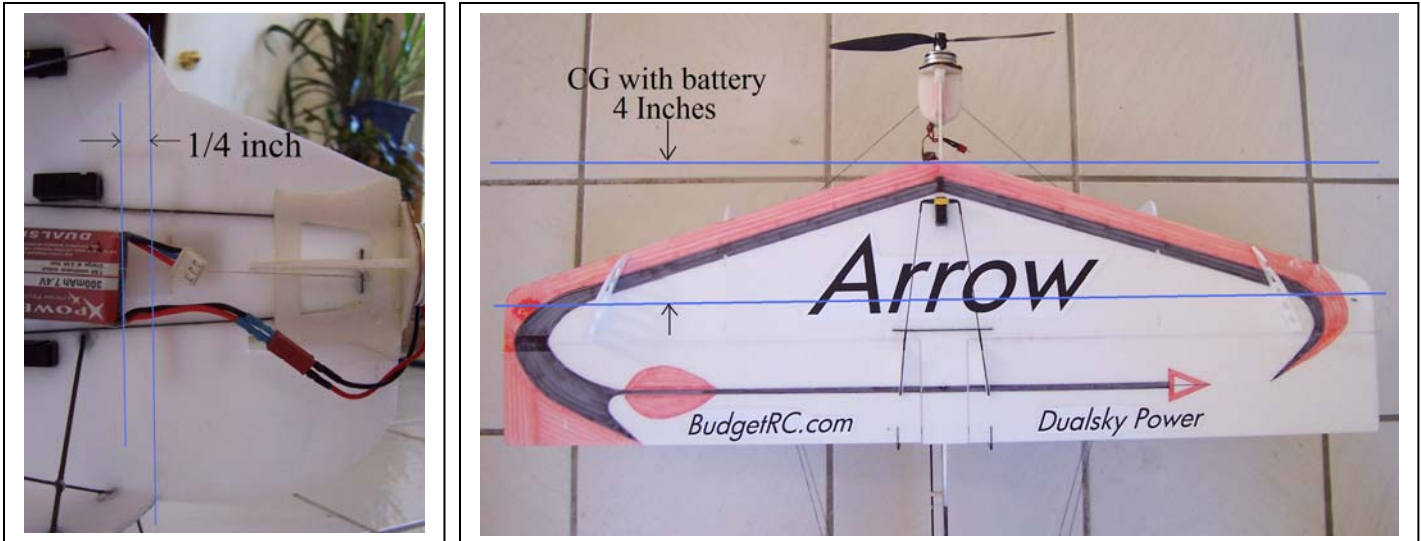


(9) “Arrow” CG Adjustment & Radio Setup

Center of Gravity (CG): Some pilots like to hold a little elevator deflection during inverted or level flight. Other pilots prefer the elevator to be neutral in both inverted or level flight; that is my preference.

To achieve my preferred flight characteristics, I adjust the location of the battery to balance the “Arrow” at a point 4 inches behind the center leading edge of the wing.



Radio Setup: Each airplane has a general Radio Setup up that allows it to fly its best. Hopefully these setup ideas will help you quickly get to your desired “Arrow” set up.

Since the motor on the Arrow has no deflection and the plane is essentially symmetrical, there is little coupling. The plane should balance both vertically and horizontally with zero or equal control surface deflection in horizontal flight and knife edge flight. This can be adjusted by battery placement. You will notice that all electronics and control rods are placed on the left side of the plane. This is done to almost exactly balance out the weight of the battery located on the right. The vertical balance is also very close due to the placement of electronics and control rods. I personally do not use any control surface mixing on an “Arrow”.

My first step is to set the “Sub Trims” and centering on all surfaces. Next I set the “Travel Adjustments” to get full deflection with all of the individual rates set at 100%. (Note: “Travel Adjustments” are affected by exact centering and control wedge location, so that would explain why there may be more adjustment in one direction than another.)

The following are the settings for my personal “Arrow”. Travel Adjustments may seem high, but you will notice that my High Rate on individual surfaces are 100% or less. This allows me to max out throws on all surfaces for High Rates (3D / Aeromusical) or switch to Low Rates (F3P) for very precision flight.

<u>“Travel Adjustments”</u> (Travel Adj. will be specific to your plane)		<u>Low</u>		<u>High</u>	
		<u>Expo</u>	<u>Rate</u>	<u>Expo</u>	<u>Rate</u>
Aileron - Left 140%	Right 140%	25%	70%	30%	90%
Elevator -Left 150%	Right 150%	27%	60%	45%	100%
Rudder - Left 115%	Right 150%	25%	53%	40%	90%