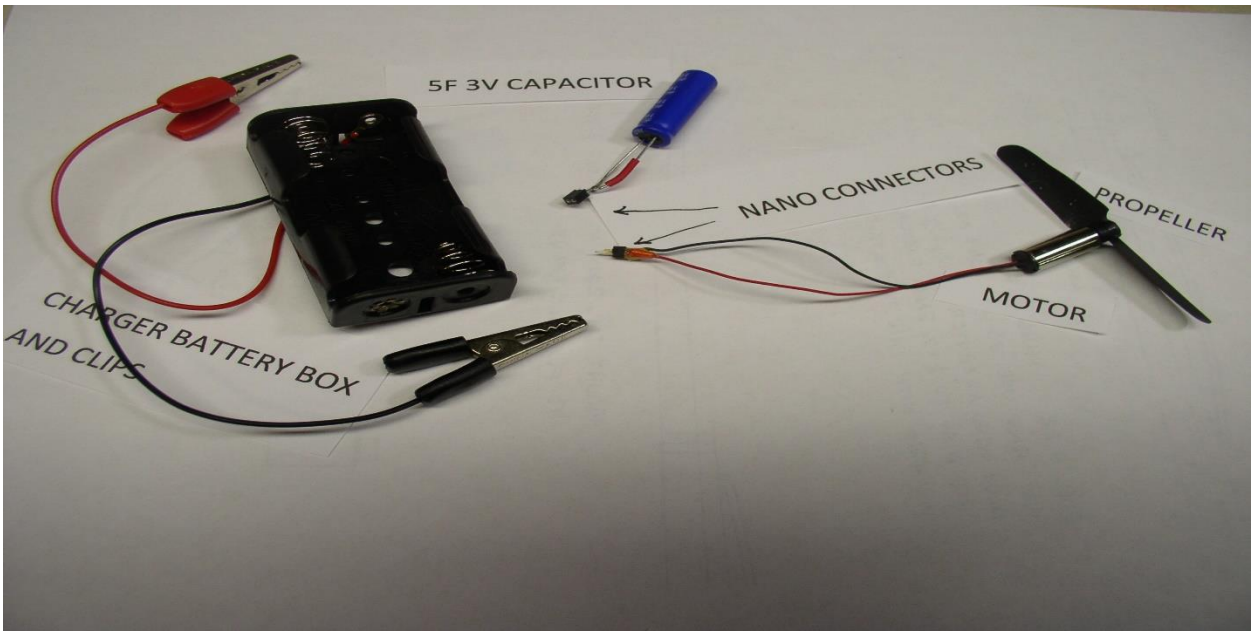
CAPACITOR POWER FOR SCIENCE OLYMPIAD ELECTRIC WRIGHT STUFF



ITEM	SOURCE	CATALOG NUMBER	PRICE
5F 3V SuperCap	Mouser	SCCR25E505SRB	$2.35
3.3 Ohm Motor 7mm Diam.	Plantraco Microflight		$4.29
Triturbofan Propeller, 56 mm	Plantraco Microflight		$3.25
NanoConnectors, 5 sets	Plantraco Microflight		$15.00
Battery holder for 2 AA cells	Mouser or Amazon		$2.00 - $3.00
Insulated color coded clips (2)	Ace Hardware		$2.99
Shipping			$12 +++ ?

Note, soldering nano connectors to motor wire leads is a very difficult task. However, alternate methods may be used. For example, the motor leads can be soldered directly to the capacitor leads. However, when charging the capacitor, the motor will run. The extent of charging will be evident as the motor RPMs increases before launching.

A limited number of power packs for the current Electric Wright Stuff are available from Chuck Markos. Use Email: cmarkf1@gmail for Pay Pal purchases. All prices include USPS Priority Mail shipping.

Package	Description	Price
As shown above	All joints soldered, ready to use	$30
Components to make above system	All the parts shown, do your own soldering	$20
Nanoconnectors excluded	Do you own soldering as in photo below	$17
Separate items from table above	Priced as in table above + shipping $6.00	

Another way to make a simple on/off switch is with brass tubing (1/16” OD) and brass rod (1/32”).

1. Solder the negative (black insulated) lead from the motor to the negative terminal wire of the capacitor. The negative terminal is identified in two ways: It is shorter than the positive terminal wire and also the wrap of the capacitor is marked.
2. Solder a short piece (1.5 cm) of tubing to the positive terminal so that no more than 0.5 cm envelops the capacitor wire.
3. Solder a 2 cm length of brass rod to the red-insulated motor wire.
4. It's best to reinforce both solder joints above with heat-shrink tubing.
5. Break the circuit by removing the brass rod from brass tubing before charging capacitor.
6. Re-insert the brass rod to start the motor and launch immediately.

If you do not use Pay Pal, send a check to: Charles Markos

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