

TALESPINS

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Visit our web site at www.wingmasters.org

Club dues for 2010 are now due. The annual dues are still \$ 15.00. When paying your dues, be sure we have your correct address, phone number, AMA number and email address. This way we can get a good club roster out to every member sometime in March.

2010 Club Officers

- **President – Paul Stimmel**
- **V. President – Romey Schwieterman**
- **Treasurer – Bob Bush**
- **Newsletter Editor – Joe Saylor**
- **Secretary – Jack Thompson**
- **Safety Officer- Don Kuhns**



Gate Keys go on sale at the WINGMASTERS March meeting.

You must have a 2010 AMA membership and \$25.00.
Remember: no AMA membership, no key, no exception.



ModelRama 2010

ModelRama was Saturday, February 13 at the Montgomery County Fairgrounds. Over 100 tables were sold and it was a Huge Success! I heard in passing many comments about “Great Deals” to be had everywhere. It seemed that almost everyone left with something in their hand! (Even if it was only a bottle of superglue)

How to Convert a Gas Model to All Electric (The AMA Insider)

By Melvin S. Harder

1. Determine weight from catalogue. In the case of the Ultra Stick 120, the published weight is nine to 11 pounds. An electric conversion will weigh about 10 pounds, total flying weight.
2. Determine desired performance. I selected unlimited aerobatic performance and 3-D; 150- to 200-watts-per-pound. 746 watts=one horsepower.
3. Motor selection. Ten pounds x 150 to 200 watts=1,500 to 2,000 max watts capability motor. I selected a Hacker C50-7XL, which has a max watts capability of 1,700 watts (again, watts=power). Select your motor based on cost, quality, and personal preference; my buddy has one. There's a lot to choose from.
4. Use the software program Moto Calc (motocalc.com).
 - a. Enter in: wingspan, wing area, weight, wing loading, and wing shape.
 - b. Enter in: motor constant, no-load current, resistance, weight, brushless, and out runner or in runner.
 - c. Enter in: gear ratio, propeller diameter (from motor recommendation range), and propeller pitch (from motor recommendation range).
 - d. You get from the Moto Calc calculated spread sheet: stall level, level flight speed, top speed, thrust, and max amps.
5. The speed of the propeller is regulated by the ESC, which regulates the frequency of the max amps—low speed is less frequent, high speed is more frequent. Pulse technology.
6. ESC. From the max amps listed in Moto Calc, plus a little head room, select an ESC. Moto Calc told me that my max amps was 107.5 so I selected a Castle Creations Phoenix 125 (max capability of 125 amps). Again, ESC selection depends on cost, quality, and personal preference. There is a lot to choose from.
7. Use Moto Calc for a battery recommendation starting point. Battery capacity is the battery's C rating multiplied by amps (5,000 mAh=5 amps). For me, 25C x 5 amps=125 amps drawn capacity. 125 amp>107.5 amps.
8. The battery tray is formed using 1/8-inch plywood and some 1/4 x 1/4-inch guide rails on both sides of the tray. I used a Velcro strap to hold the battery in place.
9. For an electric airplane, the CG is constant; no gas is used causing the CG to move backwards during flight. Battery placement is used to balance the model.
10. Safety
 - a. Mount servo switch and motor arming plug well behind the propeller—best so you can stand behind the wing, well away from the propeller.
 - b. Keep in mind that electric motors have 100% torque at 1 rpm. Gas motors build up to that point.
 - c. Starting sequence
 - i. Put throttle in middle position
 - ii. Turn transmitter on
 - iii. Turn servo switch on
 - iv. Check control surfaces
 - v. Plug motor arming plug (motor will make a tweaking sound)

When you are standing at the pilot station, move the throttle back to the idle position, which will arm the motor (motor will make another tweaking sound). You are ready to fly. →

In March and April

Mar 4th – Club Meeting

Mar 4th– New Gate Keys ... AMA Required

Mar 27th – Lancaster Ohio -- FORKS 34th Annual RC Model Show and Swap Shop

Apr 9, 10, 11 – Weak Signals Toledo R/C Expo

President: Paul Stimmel

Vice-President: Romey Schwieterman

Secretary: Jack Thompson

Newsletter Editor: Joe Saylor

Attendance: 34 Wingmasters on hand

Visitors: Donald Webb

New Members: none tonight

Treasurer's Report: *members only*

Field Report:

None tonight

New and Old Business:

* 2010 Dues are Due.

*Dave Thacker CD discussed the 2/13/2010 MODEL-*RAMA*. The volunteer sign-up clipboard was passed to members present tonight. Set up will be Friday at 5PM with the event kicking off Saturday morning, vendor set up at 6AM, doors open 9AM, and the Auction at noon.

*1/1/2010 was the Freeze Fly w/Dave Thacker CD. Pres. Stimmel volunteered to made CHILI!

It was cold and windy with about 25 brave and bundled up Wingmasters on hand. Some flew!

*There will be an officers' meeting at Pres.Stimmel's on 1/28.

Show and Tell

*Clay Harmsworth brought his awesome Taube 11½ ft. fuse under construction w/removable tail from scaled-up Ziroli plans. It's 20 lb. so far and has the two piece wing. Power is a Bryson 2.4 gas.

*Kenny Eubanks brought his powerful electric Pitts Special that he recently acquired.

*Paul Stimmel brought his 22 oz model Aero "Polaris" It has a 40 amp speed control.

**The next meeting will be held 3/4/2010 at THE FAIRGROUNDS
BE SEEN' YOU ALL THERE**