An Owl cannot fly without....

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Flight Feathers

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FIELD CLOSED FOR FSS #4 EVENT

AUG. 30 & 31

ANNUAL FAMILY-FUN PICNIC

SEPT. 13TH

DETAILS TO FOLLOW

NEXT MEETING

OCT. 4TH @ 11:00 AM

WISE OWLS

SHAUN ELMORE
PRESIDENT

~

MIKE FLICK
VICE PRES.

~

RON SANDERS
SEC./TREAS.

~

ROB GRANT
SAFETY OFFICER

~

GALE MOORE
CONTEST DIRECTOR

Exponential – Confusing ~~Shi~~ Stuff …by the Editor

Scale Flyin': Hard Sport Flyin': Really damn hard. 3-D Flyin': Physically impossible.

Okay, that really has little to do with this article, but I thought it was funny. So let's get serious about *Exponential: Just what the hell is it?*

As explained to me by Rob Grant: Exponential will soften (less or no movement) the center of servo movement with a positive setting in our Spectrum Tx, which means that the servo movement in relation to stick movement is no longer linear but much less. But do remember that as we go past our expo setting the movement of the servo will start to catch up to the rate (distance) and will actually speed up the servo movement to catch up to the programmed distance. At the end of stick/servo movement, they are again linear.

Do not confuse exponential with rate (distance of servo travel). Expo opens up center stick from being purely linear with immediate response of servo movement to stick movement to a percentage of the total movement that is essentially removed for the center stick movement. The distance set by rate does not change. In other words: With no expo there is immediate servo movement when the stick is moved. With expo there will be no movement of the servo with slight movement to the stick, and depending how much expo is programmed, the servos will not move until the stick is moved beyond the expo % programmed. Expo does not reduce or increase rate. With a JR-Spectrum Tx (+) expo opens up the center stick. For a Futaba Tx (-) expo opens up center. A (-) expo setting for JR-Spectrum will increase the stick center sensitivity as does a (+) expo for Futaba.

Excerpt from Futaba manual: [The] normal rate has no exponential so it has a very linear, normal feel. This slow roll rate has positive exponential (the opposite of what most people normally use), which makes the servos more responsive around center. This makes the servos feel the same around center in the normal and low rates, but still gives a very slow roll rate at full stick. The 3D rate (extreme aerobatics) has a very high distance of travel B nearly twice that of the normal rate. Therefore, using a very high negative exponential setting softens how the servos respond around center stick. This makes the servos respond similarly around center stick for a more comfortable feel.

(Someone correct me if I am wrong, but, from what I can find, Futaba & Hitec are the only systems that use *negative* expo to give *less response* around center stick, which actually makes more sense to me. All others use positive expo for opening up center stick.)

Loose Feathers…

A true or false quiz for our IMAC competitors. The Full Cuban 8 will be the subject.

1. True or False - The entry and exit altitude must be the same.
2. True or False - The line length of the two 45's must be the same.
3. True or False - The radius of the 5/8 loop and the 3/4 loop must be the same.
4. True or False - If the radius of the 1/8 loop exit does not match the 3/4 and 5/8 loop a one point deduction should be taken.

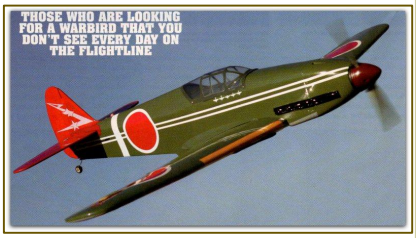
(Answers bottom of page 4)

PLANE TALK

ParkZone Sport Cub w/AS3X …by the Editor

I picked up this 51ò Sport Cub foamy at Leeôs Hobby after reading rave reviews on-line. Build time was about 1 hour, only needing the tail section, landing gear, and wings put together. Set-up, with the help of Rob Grant, was pretty straight forward. It came with a 3S-1300 battery, accessible through a trap door in the bottom of the fuse, but after the maiden flight, we switched to a 3S-2200, which fit well in the battery compartment with little difference in flight characteristics. After tweaking the tail wheel and some trimming on the maiden flight, it flew perfectly straight and level with hands-off control; then Rob put it to the test, and it passed with flying colors (pun intended). Rob tried some rolling take-offs but the model wanted to drift left. Then I remembered the reviews suggested full power and basically hands-off and, sure enough, it was airborne on straight level flight in about 5-10 feet. The oversize tundra tires handled the grass at Robôs well, but, as predicted in the reviews, they were bouncy on his paved driveway.

Couple days later at the field, I had the chance to take the controls. No excuses. My flying was a little rusty with a couple scary moments, but the plane was fairly forgiving (and no one had to dive for cover). Knocked both fairings off on a hard landing (*right after* Doc shouted, ñNice flying, Bill.ò Thanks a lot, Doc!) But, after several flights, I took it home with no damage. Not so the following weekend. But, thatôs another story. Besides, itôs never a question of **if** but **when** youôre going to crash. Right?



Name This Plane for a Chance to Win a $10 Gift Certificate to Lee's Hobbies

1. Identify This Plane.
(Preferably from the wealth of useless information stored under your hat.)

2. E-mail Entry to Editor at:
keukadiver@gmail.com

One entry per member.

DEADLINE: Midnight 8/20/14

If more than one correct answer is received, winner's name will be drawn from a hat by Editor's wife.

All members will be notified of winner and correct answer.

More Loose Feathers…

***A Quickie Tip from flitetest.com*: Twisting your individual servo/extension wires together reduces the chance for sending or receiving RF interference.**

Several of our members took exception with the "Epoxy" article published in the July edition. Jerry Flick summed it up best with this helpful warning: ñWITH OVER 30 YEARS OF BUILDING MODELS, WHEN INSPECTING A CRASHED MODEL WE HAVE FOUND THAT THE QUICK SETTING EPOXIES BROKE CLEAN FROM SOME OF THE PLYWOOD AND DENSER WOOD MATERIALS. I PREFER TO USE CA IN THESE CASES. HOWEVER, IF YOU CHOOSE TO USE EPOXY, USE A SLOW CURING GLUE (30 MIN. EPOXY) TO GIVE IT TIME TO SOAK INTO THE WOOD.ò

TIPS & HINTS (Reprinted from *Model Airplane News* November 2003)

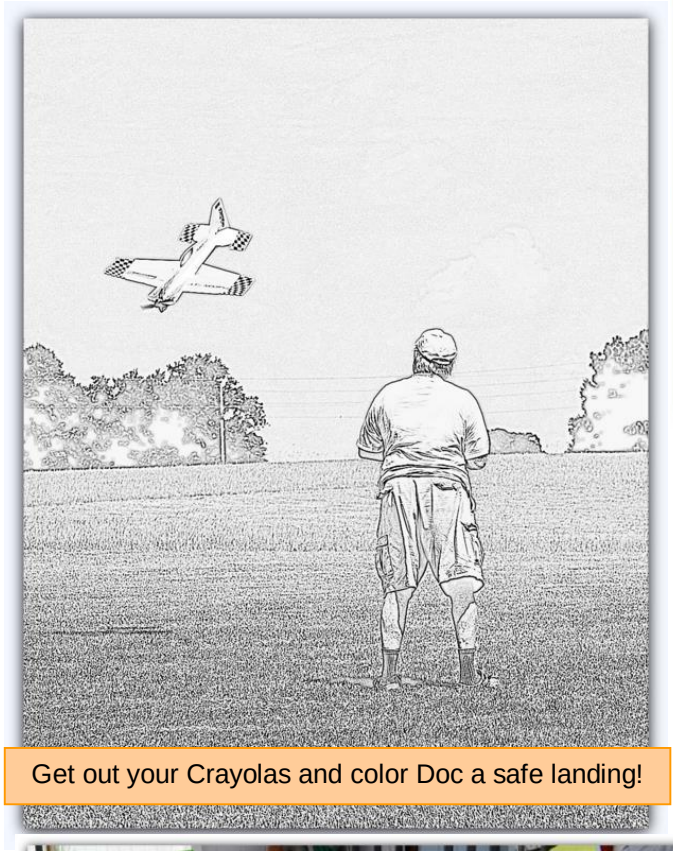
Keeping It Together: Apply a drop of flexible CA to the back of the servo plug (the side without the pins) and then plug it into the extension. If you need to take the plugs apart, slip your hobby knife between them and cut through the CA. Flexible CA is rubberized ï it wonôt crack under vibration, so your connection will be secure. John Goscinski - Orlando

Emergency Servo Saver: If your servo post strips out, cut a vertical slot in the servo post to just above the casing, attach the servo arm, and insert a screw that is slightly larger than the original. This expands the post enough for it to fit the servo arm snugly.

Luis Urbina ï Gadsden, AL

You know you've broken the landing gear if it takes full power to taxi to the gate.

The OWLS Nest Gallery



Get out your Crayolas and color Doc a safe landing!

Mike calling maneuvers for Rob.

51òwing doesnôt look so big now!

Storm on the horizon!!

First the high wind; then a 30 minute downpour! Oopsé wind knocked down a fence. 8/9/14

KennyWorld R/C Field

CR 464 west of SR 41
17150 SE 60th Street
Morriston, FL 32668
352-528-3744

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We're on the Web!

onewinglowsquadron.org

That's a Hoot…

Pat & Mike were members of the same r/c club. Always between models, Pat would ask Mike if he could fly one of his planes. Mike would reluctantly agree knowing that Pat would probably damage his planes, or worse, destroy them. After a while, Mike put his foot down and refused Pat's request saying how expensive it was getting to repair or replace the planes he damaged. Pat's retort to his friend, "Mike, you're a cheap SOB. If ya can't afford to play, get out of the hobby." ✈

© Rufus Abdullah

If your aircraft goes out of control, it is polite to warn other pilots of the fact by calling out "HEADS UP!" "Oh, SHIT!" also works. However, diving under a table and yelling "YOU'RE ON YOUR OWN, SUCKERS!" is not considered appropriate behavior. ✈

<u>You might be an R/C Modeler if:</u> ***You see your wife ironing while wearing a thin nighty and it reminds you of the Monokote job you need to finish.*** ✈

Not the Best Time for a Selfie!

© Judy Miller Watson
www.flickr.com/photos/judy1834/

A Heartfelt Thank You …from the Editor's Desk

Occasionally within the bindings of this newsletter, you have seen some extraordinary photographs of Burrowing Owls taken by William Winters (April issue) and Bill Grabinski (May issue). Now I'd like to give a shout-out to two more of my friends, Rufus Abdullah and Judy Miller Watson, who have graciously lent their owl images here for us to enjoy.

All these photographers are members of uglyhedgehog.com -- a site where we and hundreds of our fellow photographers display our images.

Answers to Quiz: 1.T 2.T 3.T 4.F
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