The Flight Line

MAY 2014

PALM BEACH RADIO CONTROL ASSOCIATION

ONE OF THE LARGEST AMA CLUBS IN AMERICA

NEWS MAGAZINE

PBRCA 7th Anniversary Fun-Fly
Page 17

'Drag' Racing at Westervelt Field
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The Hottest Bird in the Air (it's a QUADCOPTER)
Page 21

AN AMA "GOLD LEADER" CLUB

The Presidents Message

"Because it's old money." That is my short answer to the question why we are not more liberal about spending the club's money. From the outside or the newer members, it looks like the Board of Directors is stingy when it comes to spending the club treasury. Let me explain.

Our current treasury is primarily made up of funds donated when the three previous clubs were disbanded and combined into the Palm Beach Radio Control Association after we built the new digs. The funds were not created from membership dues or event profits. The treasury is old money that intended to be saved for a rainy day.

Understand that my intention is to try to keep the treasury intact and at the same time, keep the yearly dues low. I hope that this will help you understand why the Board of Directors and I tend to be frugal on expenditures. For those that have not been through the process of finding and funding a new field, I hope you now get a better understanding of the financial position of the BoD. We really hope that we never have to use the funds.

Airspeed, Altitude and Luck, you need at least two.

Doug Christensen
President

2014 Club Officers

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Webmaster
Doug Christensen
doug@palmbeachrc.com

Vice President
Arty Mundell
arty@palmbeachrc.com

Treasurer
Dave Rettig
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Glenn Gelatt
glenn@palmbeachrc.com

Director
Seth Sterling
seth@palmbeachrc.com

Public Relations
Newsletter Editor
'*Brooklyn Joe*' Mannino
bklynjoe@palmbeachrc.com

UPCOMING CALENDAR OF EVENTS - CLUB "EVENTS" *IN BOLD*

May	8, 2014	-	General meeting 7:30 PM South County Civic Center
June	12, 2014	-	General meeting 7:30 PM South County Civic Center

For more information and our **Full Calendar** go to: http://www.palmbeachrc.com/CALENDAR.htm

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On the Cover:

Last months cover featured a still photo from Steve Prew's "Blade 350QX" (Quadcopter); one of the hottest new products to hit the hobby marketplace. This month it's "Electric Mark's" 350QX. A great photo/video platform; READ ALL ABOUT IT ! (page 22)

As Always, A Special Thank You goes out to our Club Photographer - **Arty Mundell**

Check out all the great photos at: http://www.palmbeachrc.com/photo

You must have an active internet

CLICK HERE

CLICK HERE FOR CLUB SAFETY VIDEO

Written, produced & published by "brooklyn joe" photography/LJM Write Co., Inc. - All rights and wrongs preserved © 2011-2014

PALM BEACH RADIO CONTROL ASSOCIATION

GENERAL MEETING MINUTES

Susan Brassner, Secretary

10 April 2014

Meeting called to order at 7:34 pm
New members and guests were introduced.
The March meeting minutes were approved as read.
The Treasures report was approved as read.

2014 Events:

PBRCA Picnic/Fun Fly: April 13, 2014 was discussed
Proposed Giants Over the Glades Sept 27th and 28th, 2014

Field Report given by Glenn:

It was suggested that all pilots take the time to inspect their plane before your first flight of the day.
Make sure that when you announce take off, that you clearly have the approval from the other pilots on the flight line.
Fast and low passes must be announced clearly and approved by the other pilots.
Every club member and all board members are safety officers and if you have any questions let the safety officer who is present on that day make the final decision.
It was also suggested that anyone not flying, who observes anything that might be unsafe, does not verbalize it to the pilots; take it up with the safety officer.
When going to retrieve your plane from the grass, "call crossing the runway" and make sure you are heard and then cross the runway **perpendicular to your plane**.
We had a complaint from someone who was not displaying his AMA card and was approached in a rude manner, so try to be more polite if you need to approach someone about displaying his or her AMA card.

Chief Training report read by Jay:

Jay had three new members who had passed their solo test.
The club needs more volunteers to help instruct; if your interested contact Jay.

OLD BUSINESS

Status on extending the fence on the west parking lot was discussed.
Purchasing new solar panels was discussed and it was agreed by the BoD that it would be too costly.
It was voted on on by the members that the Port-a-Potty not be rented until the fall.
BoD voted to increase the dues for the upcoming year to $30.00.
We have a new main gate.
We issued a deposit for the web site and it will take a few months before it is fully operational.
Joe needs articles and pictures for the newsletter.

NEW BUSINESS

* Certification of Appreciation will be given to Walt Dreyfus.
* Mention of installing a leaning post in the opening of the pilots station was discussed.
* We held a 50/50 raffle.

MEETING ADJOURNED 8:45 PM
RESPECTFULLY SUBMITTED:

Susan Brassner
Secretary

Renew Your 2014 Club Dues Now - Annual Dues are $25.00

We are updating our records, please fill out a new application/renewal form when submitting your payment.

Brooklyn Joe's Place

NEWS AROUND TOWN !

Joe Mannino - Newsletter Editor

We continue to sign new members up and our flight instructors have been very busy. Let's share our knowledge, tips and tricks with some of the many new members we signed up. Please note that we need additional flight instructors; see "From the Flight Line" below if you are interested in being a flight instructor for the club.

Many of our members have been in the hobby for a long time and you can share your **knowledge, tips, tricks and stories** with the entire membership by submitting it to be included in a future newsletter. Pictures, picture stories and articles are all welcome.

Send your submission to:
bklynjoe@palmbeachrc.com

Want to fly at Markham Park?

As of January 1, 2014, the annual pass for the flying field will be $26.50. You do not have to be a Broward resident.

Looking for an "Event" in the area, or across the country?
What about a club meeting or registering for an event?
Are you hosting an event? Want to learn about an event?
Find it all and do it all, for free, at RC Flight Deck !
Check it out at: http://www.rcflightdeck.com

BEVERLY AND I WANTED TO THANK ALL WHO DONATED MONEY TO HELP HER WITH HER STEM CELL THERAPY. SHE IS SCHEDULED TO LEAVE ON FRIDAY THE 25th OF THIS MONTH AND WILL RECEIVE HER TREATMENT ON THE 26TH. GOD BLESS ALL OF YOU FOR YOUR HELP AND FOR GIVING MY SISTER A CHANCE TO GET HER LIFE BACK.

SUSAN BRASSNER

From the Flight Line

Jay Eichler
Chief Flight Instructor

The Palm Beach Radio Control Association has instructors offering **NO CHARGE** lessons to members interested in learning how to fly radio controlled airplanes.

INSTRUCTOR/TRAINERS:

Peter Conigliaro	561-271-7525
Glenn Gelatt	561-441-7617
Dave Rettig	561-703-8730
Seth Sterling	561-859-2494
Bob Thompson	561-628-9460

If you would like to volunteer to be a trainer contact Jay Eicher 561-391-7833

If you require training, please call one of the instructors to arrange to meet.

TRAINERS ARE NOT RESPONSIBLE FOR DAMAGE TO YOUR AIRCRAFT

Picture of the Month

This months picture submitted by:
"Arty" Mundell

Early morning flight 1/11/2009

Everyone's PHOTO is eligible for "PICTURE of the MONTH"

Send your submission for "Picture of the Month" to: bklynjoe@palmbeachrc.com
Pictures should be sized to 640 x 480, your name, e-mail address and some information about the picture.
Photos must be related to our club, the PBRCA.

FSBO's . . . For Sale By Owner's

Classified's are in our Newsletter !

While we are working on upgrading/updating our website we are going to try running a classified page in our newsletter.

You will need to send the information (50 words or less) in standard text format, with your name and contact info (telephone number, e-mail address, etc.) and a price. Pictures are optional, but must be sized 640 x 480, or smaller, in ".jpg" format.

Send classified to: bklynjoe@palmbeachrc.com

Three year old Spektrum DX-7, 7 Channel 2.4GHz, DSM2 Radio Transmitter. Excellent condition, lipo battery, box w/manual, wall charger & bind plug w/clip. **$150.00 FIRM**
Call brooklyn joe @ 954-415-7475

AVAILABLE

Field Rules /Field Comments/Suggestion Box

Please keep your feet off the picnic BENCHES when sitting on the table tops"

There is **No Smoking** allowed beyond the fence separating the spectator area from the flying field. **This is a Palm Beach County Park Requirement**.

ALL aircraft must **face north** on the taxiway or start up stands when starting the engine (electric, gas, nitro; no exceptions).

VIDEOS/VIDEO REVIEWS

Perfect View Aerial Media: Sony Open Airshow	**http://vimeo.com/91952195**
20ft. B-25 Mitchel 2x400cc Moki	**http://youtu.be/-b8XhpYBkZo**
Holy Heli . . . . . Batman !:	**http://youtu.be/77uK19KxMuI**
GIANT SCALE RC HAWKER SEAFURY:	**http://www.youtube.com/watch?**

Palm Beach County has previously established "flying" boundaries and we need to adhere to those restrictions. There is an aerial map showing the boundary lines for west & south flying and it is posted in the bulletin board located at the "impound". Our club has already been warned about flying over the Everglades by a Federal Wildlife Officer. You must fly within the designated

Field Safety Rules, as approved by the membership can be read the here:
http://www.palmbeachrc.com/PBRCA_safety_rules_revH.pdf

SAFETY FIRST !

As the park gets more and more popular, we are going to see more and more patrols by the Sheriff's Department. The park speed limit is **25 mph and stop signs, mean STOP!** Do not risk an expensive ticket by becoming complacent. Save your money for a new plane, battery, servo or radio. **Slow Down & Stay Safe!**

Located just south of the RC Flying Field is our Heli Field

PBRCA OUR HELI WORLD

W T F . . . ?

James Schnaderbeck's homemade octocopter. Seen here are a pair of its twin coaxial motors (8 total) without props.

930 mm overall with two 4s 5000 mA lipos, carbon fiber booms & frame, Hobby King fasst-compatible receiver, DJI GPS system and, of course, a camera mount.

Not yet ready for its first flight. Prop size and overall weight still to be determined.

Photo-Story courtesy of: Seth Sterling

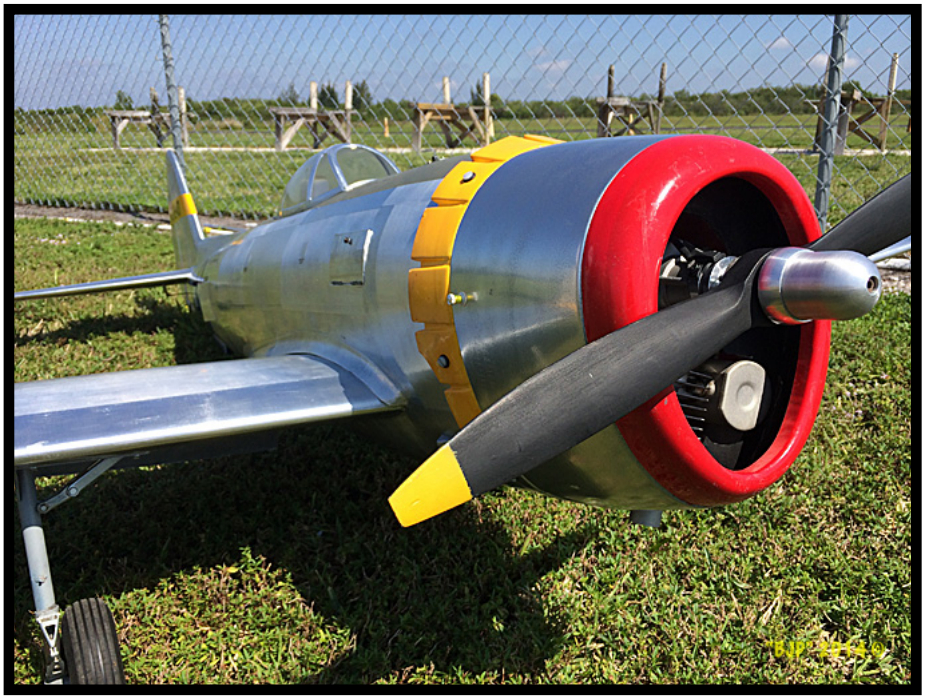
Attention to DETAIL!

KENNY DUNFEE's P-47 'THUNDERBOLT'

GETS ALL NEW METALLIC (FOIL) COVERING. EACH PANEL IS INDIVIDUAL, TEMPLATE'D, CUT OUT, STEEL WOOL'D AND HAND 'RIVETED' BEFORE BEING INSTALLED BY HAND, ONE PANEL AT A TIME. THIS IS ACTUAL FOIL COVERING (HIGH GLOSS) THAT TOOK KENNY ABOUT 3 WEEKS TO COMPLETE. PANEL AND RIVET LINES ARE FROM OLD DRAWINGS AND PICTURES OF THIS OLD WORLD WAR II WORKHORSE, THE P-47.

KENNY HOPES TO RE-MAIDEN THIS BABY REAL SOON.

Photos by:
brooklyn joe photography
2000 - 2014 ©



Arty and Joe's Pictures from the Field

Arty and Joe's Pictures from the Field

WHY SAFETY COUNTS !

Westervelt Field

Home of the Palm Beach Radio Control Association

On Sunday, April 13th, we celebrated our 7th Anniversary at Westervelt Field and a good time was had by all!

This time it was the food that was 'Smokin Hot'; the contests were a blast and the raffle prizes put a smile on everyones faces (that won) !

The best part of the day may have come from our very own Chef Boy-Ar-Dee; Ron Kunschaft, 'Event Organizer Extraordinaire', and Chief Cook and bottle washer! With an assist from Dave the Dog Man, everyone was very well fed!

Photos by: "Brooklyn Joe" Photography 2014 ©

Special Thanks to Ron for the great job he did in organizing the event and feeding us too!

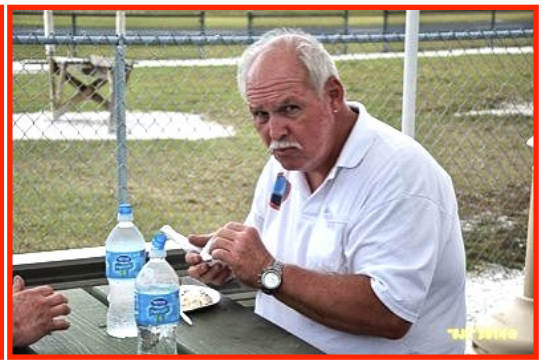
Westervelt Field

Home Field of the Palm Beach Radio Control Association

Photos by: "Brooklyn Joe" Photography

Westervelt Field

Home Field of the Palm Beach Radio Control Association



Photos by: "Brooklyn Joe" Photography

Watch a slideshow of the event: http://youtu.be/prJtHhVxPF8

Westervelt Field

Home Field of the Palm Beach Radio Control Association

'DRAG RACING'

an ANNIVERSARY TRADITION

Photos by: "Brooklyn Joe" Photography

Westervelt Field

Home Field of the Palm Beach Radio Control Association

Prior to our anniversary contest award ceremony, a special presentation was made to Walt Dreyfus in recognition of his contributions, dedication and hard work to our Radio Control Community. The certificate read as follows:

"For your unwavering support of all radio control flying activities at Westervelt Field and your help teaching and encouraging the membership of the PBRCA along with your dedication to the radio control community over the past twenty years."

THANKS WALT !

Westervelt Field

Home Field of the Palm Beach Radio Control Association

Here are the camera shy winners from our Fun-Fly events:

Limbo:

1st place - Slick Rick "Lowest"

2nd place - Electric Mark "Lower, lower"

Spot Landing:

1st place - Glenn G "Center Bullseye"

2nd place - Artie "1st Circle"

Drag Race:

1st place - Slick Rick "49.15 seconds"

2nd place - Ed C. "57.24 seconds"

Special Thanks to Ed Christainsen as the Fun Fly Meister !

and . . . . . Our Smiling RAFFLE Winners !

Photos by: "Brooklyn Joe" Photography

The HOTTEST 'Quad' in the Air

Blade 350QX QUADCOPTER

Introduced last year, the Blade 350QX has literally 'taken off' and is one of the most popular 'Quads" flying the RC skies. With many choices for recording HD video & still imaging (photos), the included camera mount is GoPro compatible, so you can expect professional quality results with the right camera setup.

ENGINEERED WITH SAFE™ TECHNOLOGY

SMART MODE

While in Smart Mode, SAFE technology engages the innovative SAFE Circle™ which prevents the 350 QX from flying too close to its pilot. When in a hover, GPS and altimeter sensors keep the quadcopter in a consistent stable position. The Stick Relativity feature allows the 350 QX to follow the directional inputs from a pilot regardless of the orientation of the quadcopter.

STABILITY MODE

In Stability Mode, SAFE technology limits the flight envelope of the 350 QX and enables self-leveling characteristics for consistent level flight even when pilot input is abruptly removed from the control sticks. In Stability Mode, GPS Position Hold is active when the pilot stops providing stick input.

Aerial Photos from Steve Prew Videos

Blade 350QX QUADCOPTER

AGILITY MODE

The 350 QX utilizes AS3X flight characteristics to deliver a robust flight experience. While flying in Agility Mode, the 350 QX can perform aerobatic maneuvers with extreme stability thanks to SAFE technology.

GPS & ALTIMETER TECHNOLOGY

GPS and altimeter sensors in the 350 QX provide the ability to remain in a specific position for stable aerial footage and peace of mind.

SAFE CIRCLE™

Never worry about flying too close to yourself with this invisible pilot barrier (Smart Mode only).

STICK RELATIVITY

Move the cyclic stick on the transmitter right or left, and the 350 QX will move right or left relative to the pilot regardless of which way it's pointing.

RETURN HOME

During flight, with the flip of a switch and without any stick input from the pilot, the 350 QX will automatically return home to where its motors were started.

GOPRO® COMPATIBLE

Thanks to four 1100Kv brushless motors and ample power from a 3S 2200mAh 30C Li-Po battery, the 350 QX has more than enough power to carry a GoPro® camera.*
*An anti-vibration camera mount** is included with purchase.*

With quite a few of our members flying the QX350, there is a wealth of information right here at Westervelt Field. If you are thinking of getting a QX, be sure to get all the 'scoop' before you spend your hard earned money. And when you are ready to jump in, spend the bucks, be sure to visit one of our local hobby shops where you can get the additional one-on-one help with your brand new Quad ! There are a many other options available in the Quad/Camera category, be sure to check them all out.

** Italicized print information (specifications) are as printed on the Horizon Hobby website page for the Blade 350QX Quadcopter. For more information please see: http://www.horizonhobby.com/products/350-qx-bnf-firmware-2-0-with-safe-technology-BLH7880A*

Be sure to see the Review Article in the May 2014 issue of Model Aviation

Watch the field video: http://www.youtube.com/watch?

The Palm Beach Radio Control Association

MEMBERSHIP APPLICATION & RENEWAL FORM

Palm Beach Radio Control Association, Inc. (PBRCA)

☐ FIXED WING	☐ ROTARY	☐ MULTI-ROTOR	☐ TURBINE	☐ STUDENT
Renewal	Renewal	Renewal	Renewal	NEW MEMBERS

I hereby apply for membership in the Palm Beach Radio Control Association, Inc. I understand that I must first be a member of the Academy of Model Aeronautics (AMA) or that I must apply for membership prior to submitting this application. AMA - 1-800-435-9262

AMA (Academy of Model Aeronautics)
5151 E Memorial Drive,
Muncie, IN 47302

DUES INFORMATION:

Annual dues per person	$25.00
Dues after June 1	$15.00
Annual dues under 18 years old	$10.00
Maximum Annual dues per family	$35.00

IMPORTANT: You must renew your AMA Membership by January 1st of each year in order to fly at Westervelt Field and receive your new/renewal PBRCA membership club card.

PLEASE PRINT THE REQUIRED INFORMATION BELOW:

*First Name ***** *Last Name ***** *Initial*

*AMA Membership Number *****

(If Required)

*Street Address *****

*AMA Turbine Waiver Number *****

*City ***** *State ***** *Zip Code ******

*IMAA Membership Number *****

*Telephone number with area code *****

*Spouse's First Name *****

*E-mail Address *****

*Cell Phone Number *****

☐ ***NEW MEMBERSHIP***
☐ ***RENEWAL***

I have read the updated PBRCA "Safety Rules" and agree to abide by all the safety rules, including those rules & restrictions posted by the county.

***SAFETY RULES**: http://www.palmbeachrc.com/*

Signature ***** ***Date *******

Membership Benefits:

Monthly newsletter, monthly meetings, use of club maintained grass & blacktop runway, pit area tables & benches, frequency control station, flight instruction by club instructors, participation in club contests, fly-ins, picnics, shows and raffles.

Mail this form to PBRCA:

PBRCA
PO Box 480392
Delray Beach, FL 33448-0392

****** REQUIRED INFORMATION**

If you want your 2014 membership cards mailed back to you please enclose a stamped, self addressed envelope with your application.

WHAT'S SO FUNNY ?

Spotted at Westervelt Field !

RC HAPPENS !

Photo by: "Brooklyn Joe" Photography

USAF vs. USMC

ANOTHER

W T F . . . ?

Photo by: Steve Prew

Failure to stand behind the pilot box FENCE could be hazardous to your health !

Photo by: Hugo Bursztein

PBRCA CLICK 'IT' PAGE

(a Wikipedia definition/article)

Click the "blue" words to find out what it's all about!

Want to learn more, click on any of the *"blue"* words for a direct link to "Wikipedia"

Glow plug (model engine)

A **Glow plug engine**, or **Glow engine**, is a type of small internal combustion engine typically used in model aircraft, model cars and similar applications. The ignition is accomplished by a combination of heating from compression, heating from a glow plug and the catalytic effect of the platinum within the glow plug on the methanol within the fuel.

History

American inventor Ray Arden is the man credited with the achievement of being the inventor of the first glow plug for model engines back in 1947. Born in New York on February 24, 1890, Arden invented over 300 inventions sold in the 1920s which were mainly toys. In the late 1940s Arden invented miniature ignition engines while attempting to build the world's smallest model airplane engine. Methanol fuel came onto the market after World War II as a source of fuel for model engines. A couple of Arden's friends were running an ignition model engine and to their amazement, when they turned it off, the engine kept running. They investigated why this was and discovered a fault in the spark plug had caused a part of it to become red hot. They called their friend Arden and the glow plug was born. From then on, model engines became much simpler, no longer requiring the additional weight, bulk, and complexity of points, ignition coils, condensers, timers and batteries.

Model glow plug design

The glow plugs used in model engines are significantly different from those used in full-size diesel engines. In full-size engines, the glow plug is used only for starting. In model engines, the glow plug is an integral part of the ignition system because of the catalytic effect of the platinum wire. The glow plug is a durable, mostly platinum, helical wire filament recessed into the plug's tip. When an electric current runs through the plug, or when exposed to the heat of the combustion chamber, the filament glows, enabling it to help ignite the special fuel used by these engines. Power can be applied using a special connector attaching to the outside of the engine, and may use a rechargeable battery or DC power source.

PBRCA CLICK 'IT' PAGE

Fuel

Glow fuel generally consists of methanol with varying degrees of nitromethane content as an oxidizer for greater power, generally between 5% and 30% of the total blend. These volatiles are suspended in a base oil of castor oil, synthetic oil or a blend of both for lubrication and heat control, again, in varying degrees of overall content. The lubrication system is a "total loss" type, meaning that the oil is expelled from the exhaust after circulating through the engine. The fuel ignites when it comes in contact with the heating element of the glow plug. Between strokes of the engine, the wire remains hot, continuing to glow partly due to thermal inertia, but largely due to the catalytic combustion reaction of methanol remaining on the platinum filament. This keeps the filament hot, allowing it to ignite the next charge, thus sustaining the power cycle.

Some aircraft engines are designed to run on fuel with no nitromethane content whatsoever. Glow fuel of this type is referred to as "FAI fuel" after the aeronautical governing body of the same name.

Starting

To start a glow engine, a direct current (around 3 amps and 1.25 to 2 volts, often provided by a single, high current capacity rechargeable NiCd, NiMH or lead-acid battery cell, or a purpose-built "power panel" running on a 12VDC source) is applied to the glow plug, initially heating the filament. (The name 'glow plug' comes from the fact that the plug's filament glows red hot.) The engine is then spun from the outside using a manual crank, built-in rope-based recoil starter, spring-loaded motor or purpose-built electric motor, or by hand, to introduce fuel to the chamber. Once the fuel has ignited and the engine is running, the electrical connection is no longer needed and can be removed. Each combustion keeps the glow plug filament glowing red hot, allowing it to ignite the next charge, thus sustaining the power cycle.

Lead-acid battery cells that are used to ignite a model engine glow plug, due to their two volt output when freshly charged, usually cause a regular 1.5 volt glow plug to burn out instantaneously, and either a resistor of the proper value and wattage, or a high-power germanium transistor's base/emitter junction (in a series connection with one of the plug's terminals) can reduce the lead-acid cell's voltage to a suitable 1.5 volt level for engine starting.

Technically a glow plug engine is fairly similar to a diesel engine and hot bulb engine in that it uses internal heat to ignite the fuel, but since the ignition timing is not controlled by fuel injection (as in an ordinary diesel engine), or electrically (as in a spark ignition engine), it must be adjusted by changing fuel/air mixture and plug/coil design (usually through adjusting various inlets and controls on the engine itself.) A richer mixture will tend to cool the filament and so retard ignition, slowing the engine. This "configuration" can also be adjusted by using varying plug designs for a more exact thermal control. Of all internal combustion engine types, the glow plug engine resembles most the hot bulb engine, since on both types the ignition occurs due to a "hot spot" within the engine combustion chamber.

Glow plug engines can be designed for two-cycle operation (ignition every rotation) or four-cycle operation (ignition every two rotations). The two-cycle (or two-stroke) version produces more power, but the four-cycle engines have more low-end torque, are less noisy and have a lower-pitched, more realistic sound.

NEWBIES . . . . . OLD TIMERS

LISTEN UP!

Source: http://www.modelaircraft.org/education/edpacket.aspx

Priceless Fun - by Paul Billings

For only a penny and a very few minute of your time, you can do more for the future of our hobby, indeed the AMA itself, than any other effort I am aware of!

A lifelong fascination with flying and things that fly is easily developed in the very young, given the proper exposure. This project is dedicated to the young, from 6 to 66 and on; everyone gets caught up in the fun, flying this simplest of all flying machines.

Here's how to do it:

You need the top from a one-dozen-size egg carton. Place the Wing Pattern inside the foam lid and trace the outline with a ball-point pen.

Cut along the tracing with a very sharp knife or scissors. Press a penny down into the forward part of the "cargo bay" and secure with a drop of white glue on either side.

That's it -- grab it by the cargo bay and give it a good overhand toss. Have fun!

SUPPORT OUR LOCAL HOBBY SHOPS!

MANIACS Hobby Complex

954-42-HOBBY
7676 Peters Road
Plantation, FL 33324
Monday-Saturday 10-8, Sunday 10-6
www.maniacshobbycomplex.com

Radio Controlled Revolution

561-684-2772
2528 Okeechobee Blvd
West Palm Beach, FL 33409
www.rcrevo.com

RC BOCA HOBBIES

561-483-2540 Email: JR@RCBoca.com
561-483-2541 WEB www.rcboca.com
M O V E D - New Address
109 West Hillsboro Blvd
Deerfield Beach, FL 33441
M-W-R 11am-7pm F 11am-6pm Sat
10am-6pm Sun 10am-5pm

TRICOUNTY HOBBIES

(RC Hobbies has a new name)

954-721-5720
www.tricounties.com
www.rchobbies.net
6800 N. University Drive, Tamarac
I-95 to Cypress Creek exit. West to University Drive. Southeast corner of University and McNab Road. Or take 441 to Sample Road, west to University and south to McNab Road (Cypress Creek turns into McNab)
M-F 9-8, Sat/Sun 10-5

House of Power Hobbies inc

15904 West State Road 84
Sunrise, FL
954.385.5656
Located in front of Markham Park - Inside Westgate Square Plaza
facebook.com/houseofpowerhobbies

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