Central Carolina Radio Modelers Club on the Fly! May 2017 Editor in Chief: Marc Wentnick

Club Meetings are held at the **Field** the 2nd. Tuesday of every month unless otherwise noted

Order food at 6:00 Meeting start at 7:00



Board meetings are tentatively held every 1st. Tuesday.
Time and location to be announced.
Please contact:
Tim Holland
336.508.5596
hollandt@triad.rr.com

Ronnie Garris 336.906.0565 rgarris@aol.com

Happy 25th. Open House Anniversary

OPEN HOUSE

MAY 29TH.

CD: RONNIE GARRIS
rgarris@aol.com
336.905.0565

IMAC

AUG. 19-20 CD: STEVE SIDES

ssides@triad.rr.com 336.944.2462

CUB DAY

JULY 16TH.

CD: ROBERT UNDERWOOD paverman@underwoodpaving.com 336.885.2318

ELECTRIC FLY-IN

SEPT. 16TH.

CD: MARK WILLARD gr8guy4u101@live.com 336.431.7601

FLOAT FLY

SEPT. 30TH.

CD: TOM BLACK

tblack8086@gmail.com
CLUB MEMBERS ONLY

NC AVIATION MUSEUM

Saturday, June 10th.
Static Display
Nan Brinson

deucebrinson@northstate.net 336.472.2828

Work Day May 13th.

Volunteers
needed!
Contact:
Tim or Ronnie



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Tim Holland 336.508.5596 hollandt@triad.rr.com Ronnie Garris 336.905.0565 rgarris@aol.com



25 Open Houses!

 $M_{
m y}$ gosh what an achievement. This got me thinking....hmm....1992.

Let's take a look at it!

IN 1992...

Woolworth's announced it was closing over 900 stores.

All shown in averages

Dow Jones
3301
Cost of a new house
\$122,500.00
Income
\$30,030.00
Gallon of gas
\$1.05
1 lb. Of bacon

Miscellaneous

\$1.92

Ross Perot announced his bid for president against Clinton and then president Bush Clinton wins

John Gotti sentenced to life

Hurricane Andrew hits South Florida

McDonalds opens the first restaurant in Beijing China

Euro Disney opens in France

TWA declares bankruptcy

IRAQ keeps hampering UN inspections for weapons of mass destruction

Russia makes it legal to own your own business

FDA bans silicone breast implants

Riots breakout in L.A. after the acquittal of 4 white officers in the Rodney King case

Mike Tyson CONVICTED

of raping Miss Black Rhode Mellervision NCAA Basketball Island Desiree Washington Law & Order Duke American's Funniest (Ya Duke!) Videos NAFTA is signed **Home Improvement** (don't ask!) The Jerry Springer Show **Kentucky Derby** L.A. Law Lil E Tee Technology Matlock Married with Children Famous Onotes Star Trek: Next Windows 3.1 released Generation "I didn't inhale" **60 Minutes** "It's the economy, Sports Microsoft releases stupid!" WORKS **Candidate Bill Clinton** Baseball World Champs **Toronto Blue Jays** AT&T releases first video **'Great sucking sound"** phone for \$14,99.00 Candidate Ross Perot Superbowl XXVI Washington Redskins The first nicotine patch "Can't we all just is approved to stop get along?" smokina **NBA** Champions **Rodney King Chicago Bulls** The Space shuttle "There's no crying Endeavor maidens Stanley Cup in baseball" without a hitch Pittsburgh Penguins Tom Hanks, in 'A league of their own' Hollywood U.S. Open Golf **Tom Kite** "Friends don't let Aladdin friends drive drunk!" Home Alone 2 US Dept of Batman Returns U.S. Tennis (Men & Ladies) Transportation Lethal Weapon 3 Stefan Edberg/Monica Seles A Few Good Men Time Magazines Sister Act The Bodyguard Mam of the Mear Wimbleton (Men & Ladies) Wayne's World **Andre Agassi/Steffi Graf** Bill Clinton Basic Instinct Miss America Unforgiving **NCAA Football** Honey, I blew Up The Kids Carolyn Sapp

Alabama

(Honolulu, HI)

Reservoir Dogs

Scandels

The aircraft carrier
Saratoga accidentally
launches live missles
during a joint US/Turkish
excersise killing several
Turkish officers

Booty Shaking makes it's debut with the release of Sir Mixx-a-Lot's Baby got Back

Princess Diana and Prince
Charles separated after
his affair with
long time love
Camilla Parker Bowles was
revealed

POP Culture

A shipping container filled with 28,000 rubber duckies was lost a sea.

They are still being found around the world.

Cost of a Superbowl ad \$850.000

Deaths

Anthony Perkins Chuck Conners Marlene Dietrich Cleavon Little Paul Henreid Dana Andrews
Jose Ferrer
Dick York
Sandy Dennis
Shirley Booth
Benny Hill
Sam Kinison
Vincent Gardinia
Molly Picon



Chay, I did something stupid as usual. I decided to fly my carbon Z Cub with a bad cold soldier joint at the battery during Cub day last year. I turned left the plane stayed straight and landed on the tallest tree in North Carolina!

Thank goodness John Klein after 4 long hot sweaty hours retrieved it. Unfortunately the tail-feathers broke as she came off the many branches blocking her way down.



M looking for the left side 90 degree plastic support that lives on the underside of the rear horizontal stabilizer.

If you have one please contact me!

ebida3@yahoo.com

NEW TOYS!

Brother Mark Willard picked up a beautiful ME-262. The detail is incredible. Cooling vents, camo scheme and overall quality make this new addition a sure winner!





June 26th. 1943

48 P-47's attached to the 56th. Fighter squadron were out on a mission to protect B-17's back from a fire on him. They just bombing run on the their way to England.



🔼 young fighter pilot named Bob Johnson fly's Blue 4 at the tail of the formation. Fifteen miles inland Johnson spots something at 5 O'clock high. The tiny specks behind him are a formation of Focke-Wulf's 190's Germany's most heavily armed single engine fighter. Piloting these planes are the best of the best in the Luftwaffe, Adrenalin surges Johnson calls out

on the radio. He tries to call out again but before he can complete his call the enemy is right up behind him. They open about destroyed the aircraft from under him. The tail feathers were shot to heck, the canopy was stuck a little less than his feet on the dash and half way, the engine was belching thick black smokepull the canopy but it and oil was splattering all over the windscreen. An explosive shell sent bits of red hot metal in his right leg, a machine gun round gazed the very tip of his nose.



Johnson's ship plummets and spins out of control from 40,000 ft. as it does it shudders and screams oil is now everywhere and

everything he does is not righting his dire situation. Flames start to lick his face and arms. Most of his instruments where not working. Johnson said in a later interview, "I resigned myself to dying. This is how it ends." But instead of giving up he kicks hard left with rudder and yanks hard back on the stick. Amazingly the aircraft responses and starts coming out of it's death spiral and he is able to maintain some control. He is still losing altitude but not that fast. He tries to open the canopy but the being jammed it won't move. He tries to brace with everything he has didn't and wouldn't budge. He even tried standing and squeezing through the busted Plexiglas but his parachute got horribly snagged.

Johnson takes stock of his situation. He scans the skies looking for friendly's but he is all alone. At this time the FW's left him for dead. He pounds on the canopy frame but still nothing. He is in a glide descending and losing altitude very slowly. He realizes that the smoke has abated and the plane is going down but gliding stable. The controls

appear to be somewhat responding as well.

He happens upon a dot at The R-2800 was being his 4 O'clock. As the dot gets larger it proves to be aircraft at that time the a yellow nosed Bf-109 closing quick. His heart sinks. He is being intercepted by the Germanwinner.

ace Egon Mayer who was one of Germany's most experienced pilots. Mayer is credited with shooting down 102 enemy aircraft the Western Front alone. By the time he comes across Johnson he has already had 3 ½ years combat experience and scored 66 kills.

P-47 Thunderbolt

The P-47 Thunderbolt was designed by Republic Aviation as an interceptor. It's primary armament was it's .50 caliber machine guns. As a fighter bomber she could carry five inch rockets or a bomb load of 2,500 lbs. When fully loaded the aircraft was one of the heaviest fighters of the war. She was powered by the powerful Pratt & Whitney R-2800 Double Wasp. In fact, the plane was designed around it. That's why the fuselage looks the way it does. It's very stocky in front tapering towards the tail.

jug, hence the nickname. already used in two other

up on end she looks like a

Grumman Hellcat and the Vought Corsair; this engine was a proven

The P-47 was effective as a short to medium range escort fighter in high altitude air combat and in 353 combat missions in she was also utilized as a ground attack plane in both the Pacific and European theaters.

Humble Beginnings

Uriginally it was designed to replace the Seversky P-



P-34 Seversky

The first designs in 1939 was called the P-43 Lancer. It was built to show off the capabilities of problems. The sheer size the new body with the Pratt & Whitney 1830 radial engine. The P-43 was limited in production because Republic was working on a more a fighter designated as thebelt travel configurations AP-10 which later was Some said if you stood her dropped by Army.



P-43 Lancer

As the war escalated in Europe into 1940 Republic and the USAAC concluded both planes were inferior to the German's planes. Republic tried desperately to improve on the design. She was now designated the XP-47/ P-47A. All metal construction with elliptical wings a straight back leading edge slightly swept back and self sealing fuel cells where some of the improvements. Air conditioning and a roomier cockpit was another. Extending the cockpit further and covering it with the canopy gave the plane that razorback look. A pilot said it was like 'flying a lounge chair' through the skies. But the ship was fraught with and prop clearance made for harrowing take-offs, the side ways canopy had a tendency to jam and multiple gun installations in tight areas where prone powerful P-44 Rocket and to jamming due to ammo in these tight spaces. Maneuverability was

considerably less then that of the Spitfire and Bf-109. The ignition system arched and lost spark at high altitudes where the ailerons twitched and froze.

The newly organized USAAF ordered 171 of them. (c'mon you gotta laugh!) Republic slowly worked the bugs out and what emerged was the P-47B.

All P-47B's had the sliding canopy and a new GE turbo-supercharger version had the radio mast behind the cockpit slanted slightly forward. There were many variations of both the P-47 ignition system, bullet A & B's too many to list here.

Enter the variant P-47C.



Production changes proved to the USAAF that electric motor affixed to the plane was good enough and quickly ordered another 602. Both later models for additional doodlebugs falling in the B & C variants were very similar in looks.





P-47D

Initial deliveries went to the 56th. Fighter Squadron razorback design. This which as was Republic was gave poor rear visibility. based on Long island, NY. The British had struggled (I used to work down the with this on their fighters road from Bethpage where they were made many years earlier.) By the end of 1942 marked

were very similar to the C's. Stronger fuel tanks, a better more reliable proof windscreen and a breakaway jettisonable canopy were some of the changes. Self sealing fuel tanks and heavier 3/8ths. armor plating around the cockpit were even more. Curtiss 13 ft. props were changed for Hamilton Standard 13. 2 inch props in the U.S. Many fighter giving a mere 6 inches for pilots nicknamed the ground clearance! An the frame and an extender variants made like the Pon the legs were used in clearance.

Thunderbolts were being manufactured on Long Island and Evanstown,

able to keep up with more orders production was licensed to Curtiss Aviation in Buffalo, NY given the designation P-47G.

Enter the British

At this time all Thunderbolts had the and came up with the bulged, 'Malcolm's Hood." This only bulged the sides of the canopy over the tracks. This type canopy is seen on many British lent P-51 Mustangs. And a handful of British P-47's. However the English devised an all around canopy instead of a side bulge for their *Hawker* Typhoon and quickly adapted it to both the

In the summer of 1943 the first P-47's with the bubble top were released planes the 'Superbolts.' There were many other 47M built to chase V-1 London although the last variant was the P-47N. It was designed as a B-29 escort fighter over mainland Japan if needed. Illinois at this time. Barely Thunderbolts cost an

Mustang and Thunderbolt.

total of 15,636 were produced.

Now back to Johnson

Johnson can do little to avoid the inevitable. He is thinking this guy's out of up against a merciless enemy who now has gotten on his six. Mayer confidently pulls the trigger and the nose of theback to Johnson's six and Bf-190 lights up letting loose a hail of 7.9 mm rounds peppering Johnson the aircraft. Johnson could tail and trailing edge wing only hunch his shoulders surfaces. Johnson could only hope it's going to be over quick. His only move will hold out. After the is to keep hitting the rudder back and forth as if stopped after 45 seconds to bat the rounds and

The maneuver causes Mayer to overshoot Johnson as the P-47 slowed due to the rudder acting as an air-brake; the This is just one of the plane didn't rock violently as you would expect because it was so full of holes!

With oil and blood in his eyes and a windscreen covered in oil Johnson can barely see his target but he fires the .50 cal just as if to say, 'Hey, I'm not done yet." Johnson said, "It did nothing but made me feel good that I was still in the fight!" The 190 slowly circles back to Johnson's six and he could

average of \$83,000. And a only watch. But to his utter amazement the German pilot pulled along next to Johnson. He slowly looks over the battered Thunderbolt. Johnson is ammo but the German officer shakes his head in disbelief and gave Johnson a wave. He then goes again lets loose a barrage of steel that rips through praying the armor plating and the rest of the ship second attack the firing which to Johnson seemed avoid taking hits. It works! like eternity. Mayer once again came along side Johnson this time out of ammo saluted him while banking away and out of siaht.

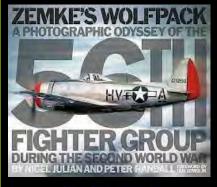
many stories that proved the resilience of the Thunderbolt.

met a pilot from WWII who told me that to impress your girl you stood next to a P-51 and sent the picture to her. If you went to battle and wanted to stay alive you took up the P-47.

.C'mon out to a meeting, we won't bite!

THE 56TH, FIGHTER SQUADRON USING ONLY P-**47'S THROUGHOUT THE WAR** HAD ANOTHER ACES, **HUBERT ZEMKE, FRANCIS** 'GABBY' GABRESKI

also known as



CLICK HERE for more info

Dive, Fire and Recover!

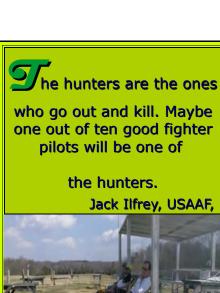
This was the Wolfpack's motto.



Anonymous...

After you solider the pins for the EC type (**blue**) connectors take a wire stripper and clean the pin by the lip that snaps into the plastic connector.

Going around the gate is a No-No!



Scene Around the Field















...and then I heard this bad sound!...

took my Parkzone P-47 off flap servo that was ailing.



he first flight I heard a lite buzzing the kind of sound you need to either lie to yourself and like Sgt. Schultz in late sixty's TV sitcom Hogan's Heroes, "I no nossing!" and hope the catastrophic event that you really know is gonna happens doesn't. Or you really know not to push it and **LAND!** Also the elevator wasn't responding as it should. She acted very tail heavy. Flying the plane reminded me of the videos of folks fighting to land a sailfish in Miami. I quickly returned to the runway and belly landed.

Upon further inspection

the elevator servo glue had dried and shrunk due to age. The servo popped up and out of the tray and was at gravity's mercy. Whew!

Next day I decide to take her up with a four cell vs. the three removed to look at them cell I always used. I have been flying my Parkzone T-28 and Parkzone Mosquito with the four cell and she comes to life. A Watts-Up amp test the wall and finally replaced a showed a draw of 29 against the 30 amp ESC's.

> Up I go and immediately go full throttle looking for that speed. The ESC kept overheating and resetting. As I pull back on the throttle to 50% I hear a grinding noise. Once again GET DOWN!

Upon further investigation

here's what I found: the four cell overheated the motor that was starting to go anyway. The solder melted and scarred the magnets which sealed it's fate.



Here you can see those rectangular magnets lined up.



The missing magnets I carefully.



The magnets are scarred. The lead solder has melted and has been picked up and thrown.

For those that remember cars with generators and early starters that over heated the term, 'Throwing solder" means something to you. When a electrical motor overheats the solder melts and bad things happen.



"You're a bit low on approach Flight 203!"



From the round file Start by opening the high end





THIS SKYRAIDER HAS SEEN BETTER DAYS!



Sound familiar?

my needle valves, or I messed up the factory setting, how do I setup my low end needle so I can start my engine? Here are some great tips to make you an expert engine tuner.

How to setup the needles so you can get Your engine started:

Start by opening the high end needle about 4 turns from fully closed. This is just a starting point to ensure the high end needle valve isn't restricting fuel to the carb so you can adjust the low end needle setting.

The low end is easily set to a good starting point with the following procedure:

Close low end needle valve completely. Install a clean piece of fuel tubing into carb fitting, make sure it is long enough for you to blow into it with your mouth.

Open carb to 1/5 open from closed position. Blow into fuel tubing while slowly opening up the low end needle valve. Stop turning low needle valve when you first feel air blowing into carb from your mouth or hear the sound of air blowing into carb. The flow should be restrictive and very small. We only want a small amount of fuel to flow (air to flow) at 1/5 throttle opening. This low end needle setting will get your engine running and may require further adjustment.

This is just a ball park setting.

you an expert engine tuner. Yow close high end needle valve and open carb to full throttle. Blow in fuel tubing and

simultaneously open high end needle until you have *FREE FLOW* of air into carb. You should not experience as much resistance to air pressure as you did on the low end. Your needle valve should be open between 2-5 turns (it all depends on the carb folks).

his procedure guarantees you don't have a blocked carb or closed needle settings for low and high. This will get you in the ballpark which then will require you to fine tune your low end and high end for best performance--highly recommend the pinch test.

Pinch test procedure:

Prime engine by opening up throttle to full and blocking exhaust with finger. With blocked exhaust, rotate engine until fuel just enters the carb and watch the fuel line to see fuel displacing the air in the fuel line.

Remember the following rules about needles:

- 1 Low end needle affects the mixture below 1/2 throttle for most engines. Use it to adjust the idle and the transition from idle to full throttle.
- 2. High end needle affects mixture above 1/2 throttle. Adjust it so engine is running 300-400 rpm shy of max lean rpm at wide open throttle.

Reduce throttle from full to about 1/5 throttle opening. Apply glow ignitor and rotate engine (hopefully w/ starter) counterclockwise (for 99% of all the high end needle valve until engines out there) until engine starts. When engine starts, move throttle to 1/2 throttle and determined by sound alone-no then remove glow driver.

throttle until it does. If engine willthe engine to run too hot and only start above 1/2 throttle, it means vour initial low end needle setting was too lean. Richen it about an 1/8th of a turn until the engine starts at a low throttle (1/5 throttle) setting, the fuel line to the carb. If the

engine will not advance to 1/2 throttle w/ glow driver is on then leave at 1/5 throttle with glow driver until engine is warmed up-about 2 minutes should do the trick.

dvance throttle again to 1/2 throttle slowly. If engine dies then your low end needle is probably too lean. Richen by 1/10 increments.

Unce you can get your engine running at 1/2 throttle then its time to remove the glow driver/ignitor. With ignitor removed, advance throttle to full hesitates in the transition, fine throttle. Chances are your engine will be too rich and may transition is snappy and idle is

to full throttle to verify the mixture is too rich. If it is too rich, then in small increments lean it out until it will run at full throttle without quitting. This does not mean the high end a starting point to ensure your engine is running at wide open throttle (WOT) so you can make your low end needle is too rich. the proper adjustments.

With engine running at full throttle, slowly and carefully leanend needle. the engine is spinning at its max Once low end needle is set, rpm. This can easily be tach needed. This is where engine is producing most power checked before every flight by engine won't start, try more but the mixture setting will causedoing the pinch test at WOT to

overheat. So, as a safety feature, always richen the mixture about 300 rpm shy of max lean rpm. Verify this by briefly pinching and releasing pinch test causes the engine to in temperature, humidity, speed up and back down, then you have correctly set your high small change of 5 degrees in end needle setting. If engine doesn't speed up much or dies then you are still to lean and need to richen the mixture slightly until it passes the pinch hot or cold outside). Hope this test.

You are almost there.

with high end needle setting set about 300 rpm rich of max lean rpm, recheck idle and transition. Let engine idle for 30-60 seconds and then snap throttle to WOT. If engine tune mixture so that the even quit. If so, briefly pinch and reliable. I personally like a lean release fuel line as you advance idle mixture so I can idle for long

periods without fuel pooling up in the crankcase which causes stumbles when transitioning to full throttle. You can also use the pinch test when the engine is idling. Pinch and hold fuel line mixture needle is set. This is justwith engine at a fast idle. Engine should speed up and die about 4 seconds. If it takes longer.

if it takes less time or if your engine dies instantly, you are to lean and need to richen your low

you will probably never have to adjust it again. However, your high end needle should be verify the mixture is slightly rich.

This 5 second test and adjustment, if necessary, will guarantee you a reliable engine that will last a long time. Our carbs do not adjust for changes barometric pressure, etc... and a temp can cause a properly tuned carb to be out of tune and possibly too lean (or too rich depending on whether it gets essay helps the newcomers to our hobby and prevents them from becoming one of the set it and forget it crowds that do not benefit from optimum tuning for the best engine performance and longevity out of an engine.

Thanx goes to my pal

HOMEBREWER

from RC Groups.com

I hope to see you at Workday. We always need a hand. Work as much or little as you can we're not choosy!

> Until we read again!

> > 'Chef Marc