



# SANDERSON FIELD R.C. NEWS



CHARTER NO. 3079

## Spring opener at Hunters April 14th

### CLUB MEETING

*This months club meeting will be held  
on Thursday March 11th. at*

**PUD #3**

**2621 E John's Prairie Rd  
Shelton, WA**

Jody talked about the attempted hacking of our bank account, no money was lost and we now have a new account.

Treasurer's report was read and accepted as read. Last years scholarship recipient has gotten his paperwork in and will be paid in March.

Club communication - FAA now requires your FAA registration number to be on the outside of the airplane unlike before when you could have it in a hatch if no tools were required. We also have some vinyl club logo's \$3 for the 4" and \$5 for the 8"

Jody noted that if you haven't been certified you need to have a trainer with you or be

on a buddy box. If you need to be certified let an officer know and we will get it done.

Todd gave a safety report - be very careful with lipo batteries. Have a fire extinguisher handy. There is one in the shed if you don't have one.

Winter build challenge website should have a forum style function soon.

The club was approached by a group up north about

maidening some turbines. The board approved and April 20th was chosen. As long as the runway doesn't get sold. I will have more information when it becomes available.

Bob Trienen has checked into building a box with 4 wheels for the club canopy it will cost about \$120. A motion was made to allocate \$150 towards the construction, seconded and passed.

Mark noted that JR radio has been purchased by D-Force.

Meeting adjourned at 7:20



## COUNTER ROTATING PROP PROJECT PART 2

*Both the gear and shaft were re-machined to accept a woodruff key.*

At one point we experienced an internal failure of the forward needle bearing. The problem was the bearing was too undersized for the load it was being required to carry. The result was a complete redesign of the front end of the gearbox. Using a larger bearing allowed Jim to double the diameter of both drive shafts eliminating other things that were of concern.

During the testing the gearbox was disassembled several times to access the wear patterns on the gears. The first gears were made from 6063 aluminum; they didn't really show significant wear, but we only flew 20 or so times. Jim felt for long term use we needed harder gears. We either anodize the 6063 or use a harder material. The final gears are 7075 aluminum. We felt the gear box was now ready for a Scale plane. With great pleasure we gutted the Telemonster and sent it's carcass to the dump.

During our testing we researched several other airplanes that had contra-rotating propellers. Spit-

fires, Sea Furies, Curtis P-46, Republic XP-72. The XP-72 is a highly modified P-47 Thunderbolt. Since I had just maiden'd my 85" Top Flite and it flies beautifully, it appeared to be the perfect candidate to modify into the XP-72. With the Skypirate besides designing the cutting files and building it, we would also have to build the custom landing gear. To save time and money we decided to go with an in production plane and modify it. The Top Flite ARF will easily carry the additional 2.5 pounds of gearbox. Both the Telemaster and my P-47 use the AXI 5345/16 motor. With 17.5 pounds of thrust, there will be sufficient power to fly a 28 to 30 pound airplane. Since most of the modifications are

forward of the firewall, the P-47 conversion will save us about a year.

One of the things we did on the Telemaster was build a quick change engine to firewall mount and two piece cowling that allowed us to remove and replace the power module. (Notice the size of the new nose bearing housing.) The XP-72 project will be interesting in that we will build-in the airspeed indicator, G-meter and camera mounts. The next installment of this article will be the construction of the plane followed by the flight tests.

(There is an interesting thread on [rcscalebuilder.com](http://rcscalebuilder.com) in the forums under General/ ARF make overs.)



# XP-72



XP-72 No.2 (43-6599) with six-bladed contra-rotating coaxial propeller.

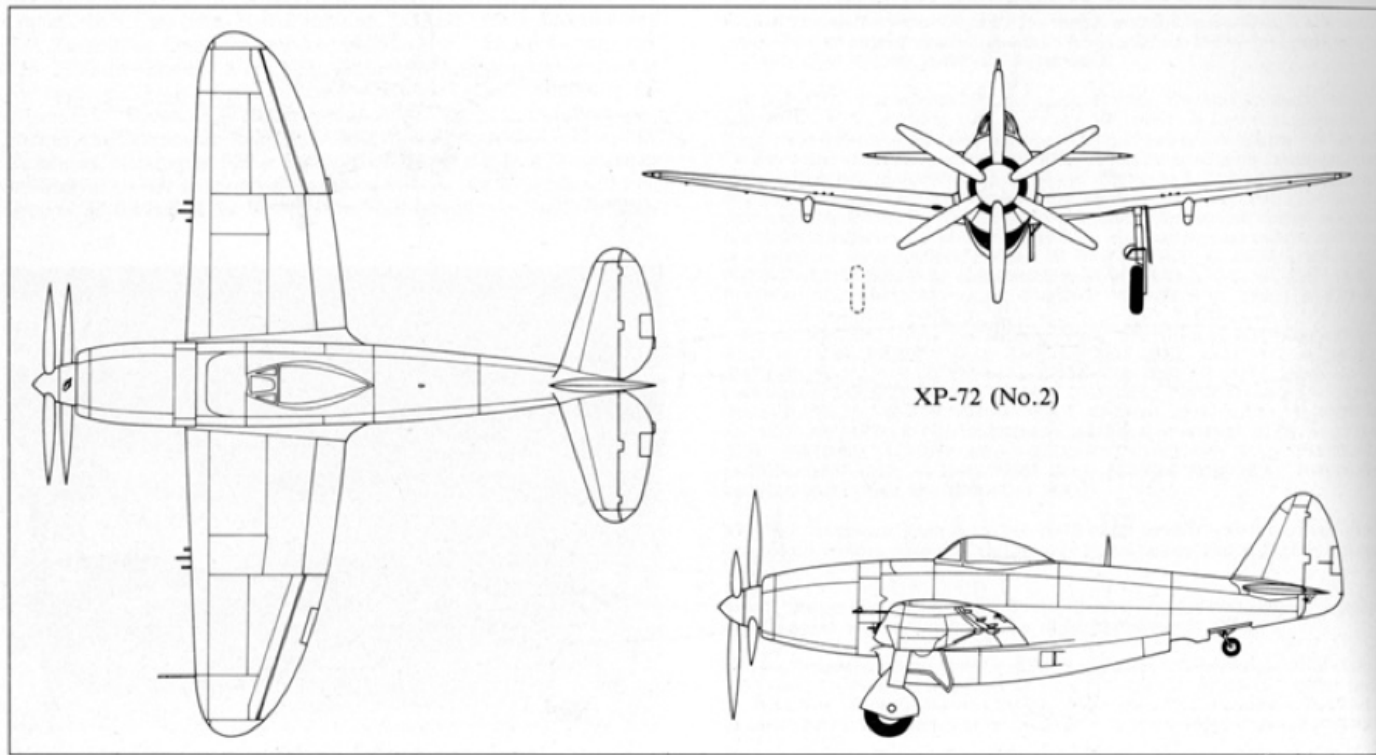
## Technical data

**XP-72** - Type: Fighter-bomber - Crew: 1 - First order: 2 - Order date: 6/18/1943 - First flight: 2/2/1944.

Power plant: Pratt & Whitney R-4360-13 turbo-supercharged, 3,450hp.

Max wingspan: 40ft 11in (12.47m) - Wing area: 300sq ft (27.87m<sup>2</sup>) - Length: 36ft 7in (11.15m) - Height: 16ft (4.87m) - Empty weight: 11,475lb (5,205kg) - Gross weight: 14,414lb (6,538kg) - Max T.O. weight: 17,492lb (7,934kg) - Cruising speed: 300mph (483km/h) - Max speed at: 25,000ft (7,620m): 490mph (789km/h) - Landing speed: 104mph (167km/h) - Climb: 20,000ft/5min (6,096m/5') - Service ceiling: 42,000ft (12,802m) - Range: 1,200mi (1,931km) - Max range: 1,330mi (2,140km) - Fuel capacity: 535USgal (2,025l)/755USgal (2,858l).

Armament: 6x.50in Mg; 2,000lb (907kg) B - Serial numbers: 43-6598/6599.



XP-72 (No.2)

**DUES ARE \$75 IF PAID BEFORE JAN 1ST, \$100 THEREAFTER.**

**IF YOU PAY BY MAIL SEND YOUR DUES, PROOF OF 2019 AMA MEMBERSHIP AND A SELF ADDRESSED STAMPED ENVELOPE TO THE TREASURER:**

**MARK PENTONY  
180 E VUECREST DR.  
Shelton WA 98584**

**Make checks payable to SFRCF**

## CLUB OFFICERS

President.....	Dave Windom .....	(406)283-1916
Vice President .....	Jody Diaz.....	(360)427-6102
Treasurer .....	Mark Pentony .....	(360)898-5951
Secretary .....	Bob Beatty .....	(360)229-3408
Safety Officer .....	Todd Pepin.....	(352)232-4283

## BOARD MEMBERS

Board Member .....	Dave Windom .....	(406)283-1916
Board Member .....	Jody Diaz.....	(360)427-6102
Board Member .....	Bob Beatty .....	(360)229-3408
Board Member .....	Mark Pentony .....	(360)898-5951
Board Member .....	Todd Pepin.....	(352)232-4283
Alt Board Member .....	Dick Robb.....	(360)427-4521
Alt Board Member .....	Jeff Sterba .....	(360)490-5800

# April 2019

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
31 Non profit filing for RC Club	1 9:00 AM RC Breakfast	2 SFRFC Board meeting	3	4 1:00 PM Training	5	6 Runway Closed 9:00 AM Wenatchee Swap meet
7 ... Wenatchee Swap meet	8	9	10	11 SFRFC Club meeting 1:00 PM Training	12	13 Runway Closed
14 9:00 AM Hunters season opener	15	16	17	18 1:00 PM Training 7:00 PM Float club meeting	19	20 6:00 PM Turbines
21	22	23	24	25 1:00 PM Training	26	27 Runway Closed
28 9:00 AM Runway repair	29	30	1	2 1:00 PM Training	3	4

Pacific Time Time Zone

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Training nights are ALWAYS weather permitting, check the weather at the field before leaving  
Sold days can change, check out the website before heading to the field.

<http://sfrfc.quintex.com/event/events.html>

## Club Scheduled Events for 2019

*Event dates in black are scheduled. Events in gray are complete.*

The new contract allows us to schedule non-exclusive days again, however if the car clubs don't go to the new track we may not keep many.

- April 14th ..... Spring opener - Hunter Farms - open fly-in
- April 28th ..... Runway repair - Sanderson Field
- June 1st ..... Winter build Challenge - Sanderson Field
- June 2nd..... Jets and Ducted fans + general flying - Sanderson Field
- June 22nd..... Float fly, hosted by Lake Nahwatzel float club 9:00am
- July 4th ..... Club fly-in - Sanderson field
- July 6th ..... Dawn Patrol and Golden age fly-in - Hunters
- July 13th..... Float fly, hosted by Lake Nahwatzel float club 9:00am
- July 19th ..... Scale practice, Judging and flight - Sanderson Field
- July 20 and 21st ..... Fun fly - Sanderson field
- August 10 ..... Club fly-in - Hunters
- September 2nd ..... Labor day fly-in - Sanderson Field
- Nov ??th..... Joint Swap meet - Olympic Flight Museum 9-3
- December 12th..... Christmas Party @ ?????? from 6 to 10

**dues \$75 before January 1st and \$100 on or after**

Check out our web site at <http://sfrfc.quintex.com>