

# ROTORUA MODEL AIRCRAFT CLUB (INC)

AUGUST 2023 NEWSLETTER

Secretary Andy Watson

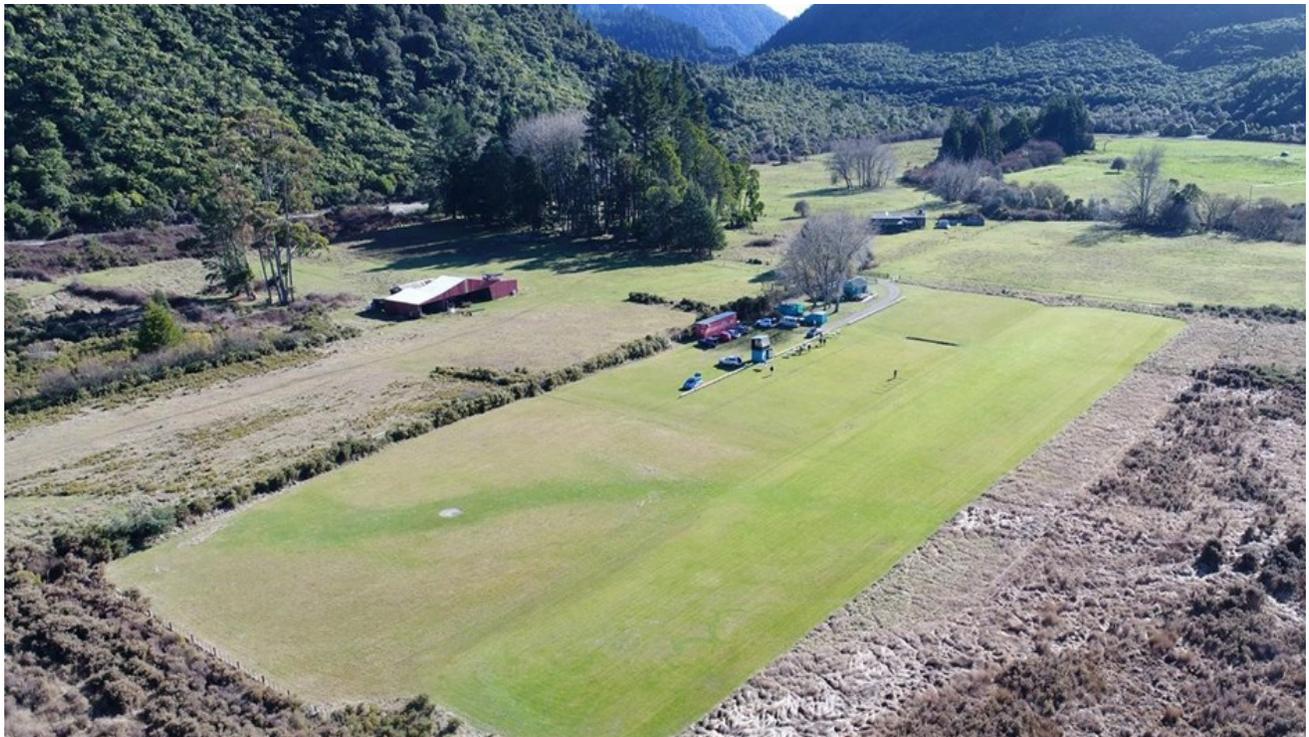
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AOTEAROA  
GAMING  
TRUST



Rotorua Trust  
MŌ TĀTAU KATOA





## **More Models For Sale**

Thanks to yet another generous donation of models and bits by Andrew Werpachowski we have some more models and bits for sale. Contact Dave or John for details.

## **Lipo Battery Safety**

The care of Lipo batteries and the need to be very careful about charging somewhere that if the batteries burst into flame the won't burn your house down can not be over emphasized. The following video is well worth a view and shows a battery pack blowing up when not charged correctly.

<https://youtu.be/n3urBpFIBgY>

## **A Word From The Pres**

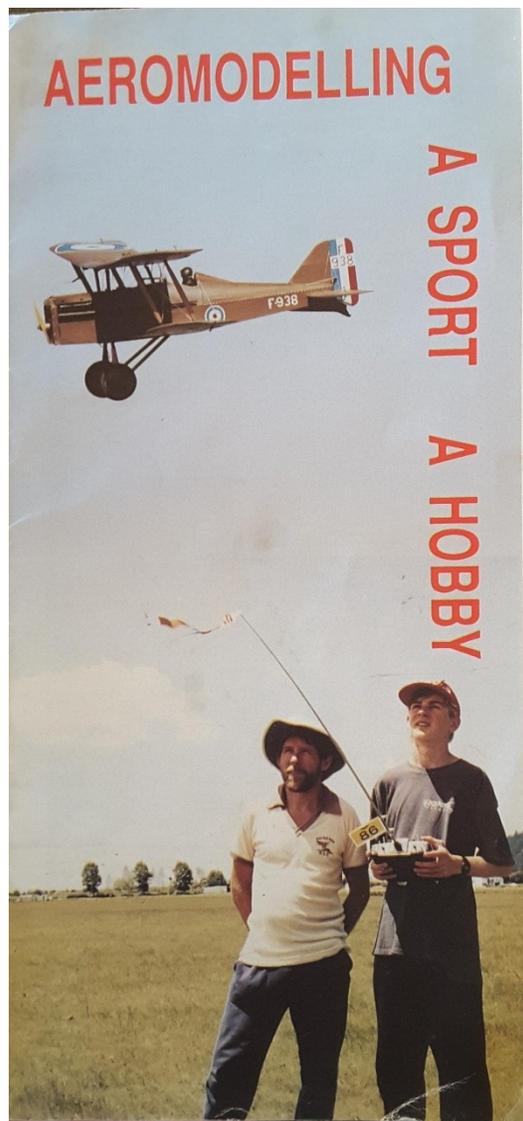
A couple of weeks ago I attended a Rotorua Lakes Council meeting regarding Community Grants, on behalf of John who was unable to attend.

The main purpose of the meeting was to discuss how these grants benefit our organisations. In our case it was understood and appreciated that the money was put towards the upkeep of our club, ie the maintenance of the grounds and assets, such as mowing the airfield and building maintenance, without, the club wouldn't exist.

The Club activities lend themselves to personal wellbeing (without which we are all buggered) in various forms... perseverance, achievement, hand/eye coordination and so forth, but probably most of all the social aspect of feeling part of a team, sharing life's experiences, discussing and solving the world's problems, and going home with a refreshed mind....great for the mental health!

So... once the hot calm weather kicks in, those who haven't been out for awhile, please do so and enjoy the environment we have out there.

Random Stuff..



## Beginners Corner

This month we'll take a look at test flying a new model and some of the things we can do to make it more pleasant to fly. (This is based on a sports or trainer type model).

Before flying make sure the C of G is in the correct place and all the control are centered with trims set at 0 and throws are as recommended. Run a tank full of fuel through the engine and make sure once the needle is set it stays running for the whole tank full. We don't want it to stop and go through the fence just after take off!

Three things that are not well understood but make a huge difference to the way a model behaves are side thrust, down thrust and rudder trim.

Having done your pre flight checks it's now time to take to the air. The aim of the first flight is to establish how the plane feels and get it trimmed for hands off flight. Forget the aerobatics at this stage.

Try a few runs up and down the runway to see how it tracks. If all's OK take off and climb to 3 mistakes high and reduce power to about  $\frac{1}{2}$  –  $\frac{2}{3}$  and trim for hands off flight. Fly round for a while and get the feel of the model. Now land and give the model a through check over. Whats come loose?

Are the control responses too severe. If so reduce the control surface deflection.

Often we find the model changes trim as the throttle setting is changed. This makes the model hard to fly and is easily corrected. To check this out get up high a reduce power to an idle and if required re-trim for a straight gentle glide. Do this several times until you have the perfect glide. Now without touching the trims see what happens when you gently open up to full power without touching the controls. Does the model settle into a steady straight climb? Again do this 3 or 4 times and see what consistently happens.

What we are looking for is if the model wants to turn one way and if the model porpoises in a series of stalls.

Both these problems symptoms of an incorrect engine thrust line.

If the model turns one way all the time correct this by adding a little side thrust in the opposite direction.

To correct porpoising correct with a little down thrust. Mixing in down elevator with the throttle is NOT the way to fix porpoising. It treats the symptom but does not treat the problem! Thrust line adjustments are easily changed by fitting washers between the engine mount and fire wall. Check the throttle settings after making thrust line adjustments as the throttle arm will have moved relative to the push rod.

Finally the last thing to sort is the rudder trim. Fly straight and level then gently pull up

into a 45° climb. Does the model YAW (not roll). Correct with opposite rudder trim. This will have an affect on the aileron trim so correct this and try again. It may take several flights to get all these setting correct but when set up correctly you will have a very pleasant model that is a lot easier to fly and doesn't require constant trim changes.

## FOR SALE

- Restored Skyraider complete with ASP46 and servos.
- All set up and test flown. Just install your receiver and go flying
- A good buy for a beginner or someone wanting a straight forward tidy model



## FOR SALE

- Arising Star
- Complete with servos and ASP 46
- Test flown and ready to fly just requires a receiver and battery pack.
- Another good beginners model.
- Has had a bit of use but has plenty of life left



If you are interested in either of these models we can arrange a buddy box trial flight.

Contact John on 020 4118 5597

## FOR SALE

Electric model complete with servos ECS , G60 motor and Batteries



Very well built and never flown (radio not included)

SIG 4 Star 120

Very well built model complete with new APS 120.

Never been flown

Requires Servos and radio

**FOR SALE**

Another very well built model With ECS and motor and servos



For more details on any of this gear contact

John on 020 4118 5597

## COMING EVENTS

August            NDC Vintage Precision & Duration R/C

Sept                NDC 1/2 A Texaco

# North Shore Model Airplane Club

After the success of its last Vintage Day, the North Shore Club is pleased to announce that it will hold a further two Vintage Days next year. All dates and wind-dates are Saturdays.

**3<sup>rd</sup> February 2024**

Wind date 10<sup>th</sup> February 2024

**13<sup>th</sup> April 2024**

Wind date 20<sup>th</sup> April 2024

