



The News Letter of the Hobart Model Aero Club Inc. August 2017

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From our man in China



From our man at the Cosford Large Model Airplane Show





Bill's Scale Column

Scale RC airplanes are modelled after Real Airplanes. RC pilots across the world are by far the friendliest bunch of people you will ever meet.

But make no mistake about it, RC pilots are quick to tell you that the airplanes they fly are just as real as full-scale airplanes! Full-scale planes are the ones you ride in!

There is something about scale airplanes that sets our imagination free. Just as a child pushes his toy truck pretending to be driving the real thing, we "Big Kids" are just as fascinated by building radio controlled planes and pretending to be full-scale pilots flying our favourite airplane through the air!

All scale model airplanes are miniature models of the full-scale version. An RC flyable scale airplane will fall in one of three categories based on how closely the model resembles the full-scale version.

These three categories are true-scale, semi-scale, and standoff-scale.

True scale airplanes are exact replicas of a full-scale airplane, except for the size of course. The level of detail that can go into a true-scale airplane can be staggering!

Here is a 1/6 scale version of the Royal Aircraft Factory S.E.5 WW1 British fighter. This bird has a Wingspan is 53" and she weighs in at 8lb 9oz. It took the builder 2 1/2 years of patience and hard work to create this fine looking RC scale aircraft!



If you take a look at the mind boggling detail that went into every square inch of this airplane, you will quickly understand why it took nearly three years to build!

Heck, I'd be afraid to fly it. Talk about an adrenaline rush!

If you want a scale RC Airplane as detailed as the one above, you're gonna have to build it from a kit or build it from scratch using a set of scale model airplane plans. You're never going to find an ARF of and RTF RC airplane with that much detail!

Semi-Scale Airplanes



Semi-scale planes look very much like the full-scale version, but are not exactly the same. The airframe of a semi-scale RC airplane may be slightly different from the full-scale version to improve flight characteristics.

The Parkzone T-28 Trojan is a perfect example of a semi scale airplane. The airframe has been modified slightly to

make it fly better as an RC airplane. But unless you are an expert, you would never be able to tell.

Are you looking for a scale airplane that flies well and don't take 2 1/2 years to build? A semi-scale (also known as sport-scale) airplane may be the right choice for you!

Standoff Scale RC Airplanes



Without a trained eye, it is difficult to tell the difference between a scale and semi-scale model. It is pretty easy to spot a stand-off scale airplane. A Stand-Off scale plane is made to resemble the full-scale version while standing off at a distance. But if you look at it closely it is nothing like the full-scale version.

Here is a quick explanation of the different glues used to build model airplanes.

Ambroid cement is readily thinned and cleaned with acetone. It works well for gluing wood to wood and is somewhat flexible. Joints can be softened for repairs at a later date. Sands well during finishing if not globbed on. This is a waterproof glue. Seldom used by modellers today, it can be purchased online from full size boat building suppliers.

Yellow woodworker's or aliphatic glue, available from most craft and hardware stores. Thin this with 25-40% water. It holds well for gluing wood and tissue, but will take hours or overnight to dry. Yellow glue is quite flexible depending on how much you thin it. It can be easily cut through with a sharp razor knife and sands well. This glue is water resistant but not waterproof and requires doping the surface to improve water resistance or for outdoor flying.

Instant glue known as CA or cyanoacrylate glue, comes in different viscosities and reacting speeds - thin, medium and thick, with cure times of 5 seconds to 2 minutes. Most model builders use CA glues. Applying this type of glue can be done via a small diameter tip on the end of a bottle allowing a tiny drop to be placed where you want it or by placing several drops on some plastic and dipping the end of the wood to be butt joined into the glue followed by putting the piece into its location. The thin type of glue works best with the applicator tip, however the dipping method is better for the thicker glue. Thick cyanoacrylate glue is heavier but very strong, the joint is stiff, it does not sand easily, but it is waterproof. Jet SET accelerator can be sprayed where you have just finished applying the glue or by putting the glue on one piece and spraying accelerator on the other surface to be jointed. Make sure you are ready as the joint sets very quickly. Cyanoacrylate glue does not work for applying tissue.

Glue sticks. To apply tissue we use blue glue sticks, a permanent glue which goes on blue and dries clear. Just spread it evenly along the wood, lay the dampened tissue on carefully and pull taut. Another option involves using thinned white glue. You paint this on the wood, then lay the dampened tissue in place. Finally seal and water proof the tissue. Clear Krylon spray paint is our choice for water proofing. It does a great job of sealing the tissue with minimal fumes.

Dope. Yet another technique is to paint several coats of dope on the frame. After it dries, damp tissue is laid in place and then dope is brushed on along the wood structure through the tissue. After the tissue dries seal it with several coats of dope. Dope can be purchased in colours or clear. Ventilation is mandatory when using dope.

Foam Safe CA Glue. For building models that contain foam parts UFO Odourless glue is the most effective. An added benefit is practically no fumes.

On a final note: Always remember to read the manufacturer's warning label and follow their instructions.

Happy and safe flying

Bill

More from that man in Canberra

Hi gents , just a follow up to the great last big spend, flu it today , what a bloody racket. Its loud, but man the speed and it tracks great . The top Flight kit is a good build , and when you get it up in the air , well what a great plane . So far only a few minor issues with the retracts , in that they worked fine on the ground but would not close in flightfood for thought , other than that this thing is a beast. Money well spent . Next project a polartius 9, will keep all postedby the way the last of the big builds.



Ps Will send info on the Bearcat that I have finished some time ago, once again a sled (80 inch rated at 35cc, has a ra 55cc dle) oh yeah.....

Cheers Peter E

Jottings.

I heard around the traps that firewood seems to be taken the field.

Surely none of our members could be suffering hardship to the extent that it would be necessary to help themselves to firewood to warm the family home. It seems extremely unlikely that anybody would go to the trouble of trespassing to steal a few logs!

Just in case would the last person to leave be sure that the gate and sheds are locked securely on departure.

There was a time that we were losing toilet paper, however there has not been a discrepancy for some time.

Similarly it is apparent that some members are not paying the 50 cents charge when making tea or coffee. Come on now – we do know the main transgressors!

Garth

Wanted

I'm looking for a JR PCM9X second series TX

Stuart

The HMAC Fire Tender

