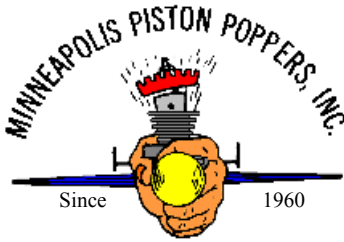


Prop



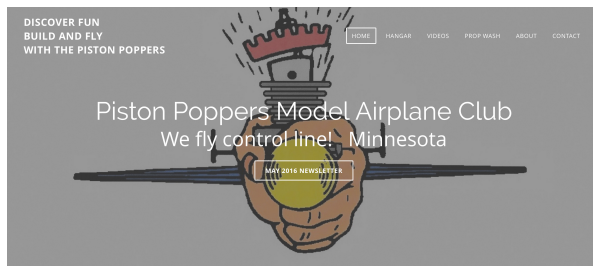
Wash

Prop Wash is a publication of the Piston Poppers Inc., an AMA U-control club

President: Tony Kubas 763-424-1045 Vice President: Keith Sandberg 763-477-9032
Secretary: Jim Gevay 763-780-8140 Treasurer: John Christensen 651-489-1735
Board Member: Keith Sandberg 763-477-9032 Editor: Sean Shug Emery 651-894-4079
Safety Officer: Glen Peterson 651-687-0453 Field Marshal: Tom Sontag

Any articles for the newsletter are greatly appreciated and will be published as soon as possible.

December 2021



<http://www.pistonpoppers.com>

November/December Meeting 2021

Old Business: None

New Business: Elections for club officers, Bob Cheney made the motion to keep all officers the same as last year. Voted on and passed.

January 1st Frozen Fun Fly: Will be held at the Westwood School and Karen has offered to make chili. No one mentioned the time so I assume it will be announced via e-mail.

Building sessions: the first will be on January 8th, that's a Saturday. The next will be in February, March and April, most likely all Saturdays. Times are the same as last year, 9-10am to whatever at the EAA Chapter building on the south side of the airport. The reason we've been meeting at Lynx FBO instead of the EAA building is it's cheaper by about \$25.00 per meeting. February Swap Meet, bring everything you want to sell, the club gets a part of the proceeds. Tom Sontag mentioned there may be a way to advertise this to others so we have a larger group selling and buying.

Show and Tell: Tom Sontag brought in his Force XL, a Mike Pratt design. It has polyspan covering and will be electric powered.

Jim Gevay

In the Bag

One of the benefits of using a low kV electric motor is that you can turn a 12" prop on a .40 sized airplane. A low kV means it is a torquer (large prop, low RPM) rather than a horsepower (small prop, high RPM). So, if you are building an airplane designed for a glow engine, the landing gear will be too short. For my first electric I used the 10" gear found at <https://www.espritmodel.com/landing-gear-carbon-fiber-lite-6---12-1-4-155mm---310mm.aspx>.

That gear is just about ideal in terms of clearance, shock absorption and durability. At 30 grams it is about half the weight of aluminum. The esthetics is a problem, however. I'm not a fan of the carbon fiber mat look and the "U" shape. So, I bought a used vacuum pump on eBay, some fiberglass and some carbon fiber. And let it sit in my basement for several years.

I had fun making a fiberglass cowl for my next airplane so I decided to finally make my own landing gear. I found a couple articles that simply used a mold and then the fiberglass and carbon were draped over it. That worked but the gear varied in thickness, was heavy and had a poor finish.

So I bought a vacuum bagging kit and made another mold. Since I'm going

this far, I built in 2 degrees of toe-in and 3 degrees of camber (so the wheels are vertical under the airplane's anticipated 55 oz weight).



The dark lines on the previous picture are string CA'd to the mold to mark the cut outline.

After waxing the mold and painting on a parting agent I began the layup. A total of 9 layers of 6 oz fiberglass and 2 layers of carbon ribbon were epoxied on. This was covered by a layer of mylar (for a smooth finish), peel ply (to wick out the excess epoxy), and paper towel (to absorb excess epoxy and prevent trapped air). The whole dripping mess was placed in a plastic bag and the air removed. I couldn't take pictures of the layup because it's time critical and I had epoxy everywhere.



Twelve hours later I wrestled it out of the bag and popped the landing gear from the mold.

Bottom view showing the cut lines:



Top view:



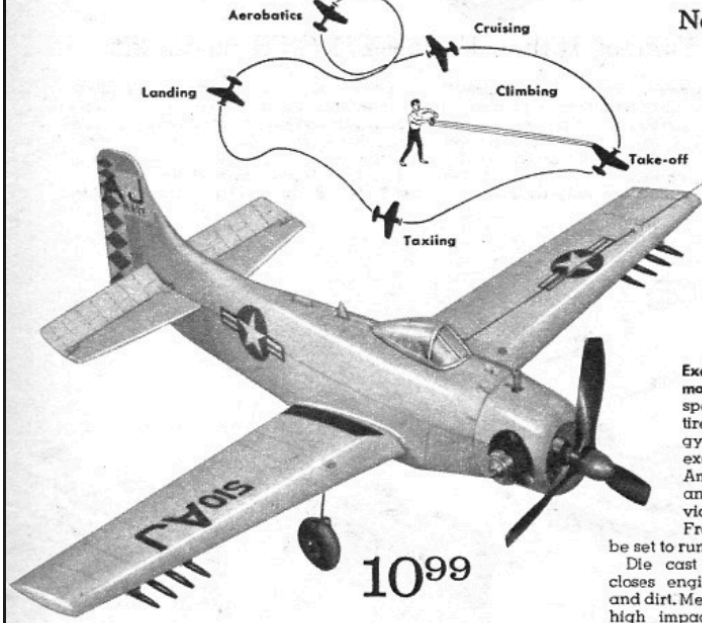
Finished view:



Weight is 32 grams or 1.1 ounces for the metrically challenged.

To make this happen I had to overbuy all of the materials. If you need taller gear for your 12" prop or you just want to play with vacuum bagging, you can come over and I will furnish all the materials and tools and you supply the labor. It takes about 1 ½ hours to do the layup. Give me a call or shoot me an email.

Ivars Greizins



Exciting Skyraider with throttle control

The Douglas AD-6 Skyraider is the newest version of a plane first used successfully in World War II and used today as a low level attack plane. Now available from Cox and powered by the reliable .049 cc engine, this accurately-scaled model has a big 20 1/8-in. wingspan. Cox exclusive feature is the throttle control which allows you to regulate the plane's speed and action on take-off, in flight and on landing. Flight of plane and throttle can both be controlled with one hand. Order starting kit at right.
48 T 17003 M—Ship. wt. 3 lbs. 10 oz. kit **10.99**

SAVE THIS CATALOG—
 use it to order toys till August 31, 1970

New! The California Dune Buggy

13.66

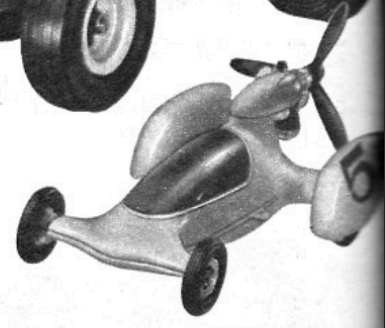


Exciting new concept in engine powered models! Adjustable throttle regulates speed! Soft, semi-pneumatic vinyl tires allow this miniature Dune Buggy to run over rugged terrain exactly like its full-size counterpart. Ample torque to climb steep grades and prevent stall-out in sand provided by 40:1 gear reduction. Front wheels are steerable and can be set to run car in a predetermined circle.

Die cast aluminum engine carrier encloses engine for protection against sand and dirt. Metal roll bar and windshield frame, high impact styrene body with dazzling silver flake finish. Powered by Cox .049 Babe Bee engine has throttle control, recoil starter. Order starting kit below. Car measures 12x7x5 in.
48 T 17406—Ship. wt. 3 lbs. **13.66**

Starting kit for gas-powered planes, cars

12-pc. starting and running kit includes everything needed to start and operate models. 1 1/2-volt starter battery, 1/2-pint custom blend fuel, fuel spout filter, tube, battery connector clip, wire, set of wrenches.
48 T 17005—Ship. wt. 1 lb. 14 oz. kit **3.49**



The wild Shrike 9.99

The gas-powered Shrike is unlike any model racer you've ever seen or raced. A prop rod with a Bonneville speedster body, it is molded in tough polypropylene and is 12 in. long. Body is bright yellow with colorful body markings; treaded rubber racing tires. The powerful .049 cc engine will excite any outdoor racing fan when he hears the deep-throated roar and sees the unpredictable action of this unique car—run free or on a line. Order starting kit at left.
48 T 17405—Ship. wt. 3 lbs. 2 oz. **9.99**

378 WARDS CHRISTMAS fun starts with **CHARG-all**, see pages 187-192 **Shop Early, PAY IN FEBRUARY**



MEETING NOTICE:— No Meeting in December

