

TIPS from a CHAMP

HOW TO BUILD MODEL AIRPLANES
by Ronnie Thorpe

Editor's Note: Ronnie Thorpe, of Portland, has been building model airplanes for many years. He has won many prizes in the annual contest of the Oregon Model Airplane Club. His plans are simple and easy to follow. With plans for another one of the best flying models in the world.

CHAPTER FOUR
Covering and Finishing
In building more advanced styles of model planes, nearly all designs make use of covered wings and fuselages rather than solid forms. The many variations in designs used by modelers mean that this part of building becomes one of the most important things to master. If you want to really go places in model plane making, good covering and finishing means a lot when your planes are entered in contests. Such as the Plymouth International Model Plane meet held annually at Detroit. Judging is based on appearance as well as flyability.

Flying scale designs, which are more or less specially require a lot of little details which call for as much patience as skill. Patience is something I've had to develop while being shut in much of the time.

When you have been working on a design and have built it up to where the final covering and finishing is to take place, it seems like it's that point where your interest is just about at the peak. Only when the craft is about to be

apply paper while still wet, being careful not to tear it. Pull tissue as lightly as possible without injury.

Next comes a very important step. If the piece being worked on is a wing stabilizer or rudder, pin it down to your working board until it dries or it will be sure to warp. Then while it is still secured to the board, apply a coating of dope on the top side. After this has dried, turn the piece and turn over to repeat the same operation on the other side. Now, for example, if you are working on a wing, unpin it and turn it over again. Pin trailing edge of one wing half down on board. Dope, watch, and adjust with hands as it dries to avert warp. Then repeat on the other wing half.

If fuselage is rounded, cover in small sections, apply wet tissue as above. After covering all of fuselage, leave the whole a coat of dope. Individual small parts of a plane such as doors and panels are covered using same technique.

A model needs no more covering than this and will probably fly best this way as each coating of dope adds weight. Should you want to color your model, apply one or two coats of color dope, pinning each surface as before to prevent warping. If your model has too dull a finish to suit you, add a last coat of clear dope. Keep in mind that each coat of dope may cut down the flight performance of your plane.

For finishes on all balsa models, you should first apply a coat of sanding sealer. After this dries, sand smooth and apply a second coat of sealer. After again sanding smooth, the surface is ready for color doping. One clear coat of lacquer as a finish gives a gloss.

Something to keep in mind as far as finish is concerned is that fuels used in gas-powered engines will in many cases ruin a painted surface. Keep fuels away from them unless you want to repaint.

In dressing up your plane for appearance sake, there are many desirable details available. Numbering, authentic trademarks, designs and decorations are available through your model dealer. Individuality may be shown by applying your own painted designs if you are so talented.

It is a little difficult to cover such a wide subject as model plane making in such a brief way. Thousands of words and detailed instructions are being printed every month in the many model and hobby magazines. I have been trying to give my own reactions to plane building and offer a few things that have worked for me.

Five Students of County Attending Training Center

Five high school students have been selected to go as delegates to the Junior Red Cross training center to be held at Silver Creek Falls, near Salem, from August 24 to the afternoon of September 3.

They are: Dolores Fine, Banks high school; Harold D. Engelein, Forest Grove high school; Eloise Clarno, Hillsboro high school; Jo Ann Kramer and Bob Sperr, both of Beaverton high school.

This training center will accommodate 95 students from Washington

Projects Suggested for Rotary at Luncheon Meet

Club projects ranging from a swimming pool to scholarships, were submitted at the Rotary club luncheon Thursday with Carl Miller serving as chairman and moderator. The projects will be studied by the board of directors before adoption of a program for the year.

Miller said his understanding of the purpose of Rotary was to provide "organized opportunity to be of service to the community in which I live."

A vocation conference for high school students such as was conducted by the Forest Grove club was suggested by L. B. Hall. He said that under such a program Rotarians and others would discuss their lines of business before students.

Aid Bagley Park
Sponsorship of an air show by Rotary in co-operation with other service clubs to help in financing the Bagley park recreation was suggested by Lester Hewitt.

Formation of a Bagley park recreation association to co-ordinate activities in behalf of recreation was advanced by A. L. Armacher.

The need for publicizing Bagley park was brought out by J. H. Garrett and F. L. Brown. It was pointed out by Brown that the state had done considerable work on the park. Ben Faber called attention to the community's need for a swimming pool, pointing out that years ago by still no pool. A city the size of Hillsboro should have a pool for the benefit of its young people, declared Faber, who cited the fact that swimming is an important part of the Boy scout program. He pointed out that the water shortage problem no longer existed.

and Oregon, and the program will include organization and camp functions by student leaders; discussion and demonstrations on first aid, water safety and accident prevention. Home nursing, local, national and international activities; supervision and instruction in swimming, recreation, outdoor sports and games; campfire activities.

Students will have the opportunity to complete courses for certification in first aid, water safety and accident prevention.

Camp supervision will consist of area office (San Francisco) personnel as well as a few chapter centers, who will be in charge of the various activities.

This is the first time for such a meeting in Oregon and the fourth time for Pacific area. There are two other centers this year—one at Astoria, near Pacific Grove, Cal., and the other at Flathead Lake, Polson, Mont.

Hillsboro Argus

Hillsboro, Oregon, Thursday, August 18, 1949

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Motorists Must Regard Stopped Bus as Stop Sign

School buses stopped along the roadway to load or unload passengers must be regarded as though they were stop signs, reminds the secretary of state's traffic safety division.

This will call for the formation of a new driving habit on the part of Oregon motor vehicle operators when schools re-open next month, safety officials point out.

Under the terms of Oregon's new school bus stopping law adopted by the state legislature early last spring, all vehicles must come to a complete stop when meeting or overtaking a school bus on a two-lane highway that has stopped to load or unload children. Vehicles may not proceed, the law declares, if and so long as any children are leaving the school bus or crossing the highway.

Before its passage, school buses could be passed by other vehicles without stopping, provided speed was held to a maximum of 15 miles an hour.

The new law exempts from stopping only those vehicles on the far side of a four-lane highway traveling in the opposite direction. Similar laws are in effect in at least 20 other states including Washington and California, the division reports.

Patton Speaker At Union Picnic

President James G. Patton of the National Farmers union will speak at the annual picnic of the Oregon State Farmers Union at Champe, Sunday, August 21. The speaking program will start at 1 p. m.

President Patton will come to Salem direct from Washington, D. C., where he has been spending most of his time in recent months, directing the farm organization's battle for enactment of its legislative farm program. Despite the adverse vote in Congress on the Brannan plan, the Farmers Union will continue its fight for the enactment of that program, carrying its campaign of information to "grass roots" working farmers. Patton will report on the latest developments in this campaign.

Arrangements for the picnic are being made in the opposite direction. Similar laws are in effect in at least 20 other states including Washington and California, the division reports.

In charge of President Ronald E. Jones of Brooks. Following the speaking, a sports program will be held under the direction of the St. Paul local of the Farmers Union, of which Peter Kirk is president.

The picnic is open to the public and a special invitation is extended to all farmers, whether or not they are members of the Farmers Union, to attend.

Oregon Flag in Parade
WASHINGTON, D. C. — The Oregon state flag will be borne in procession with the national colors at Washington Cathedral in observance of Oregon day on August 21. The Very Rev. John W. Suter, dean of the Cathedral, invites all Oregon residents to attend the morning or afternoon service, and join in prayers for the state, remembering also those who served in our country's wars.

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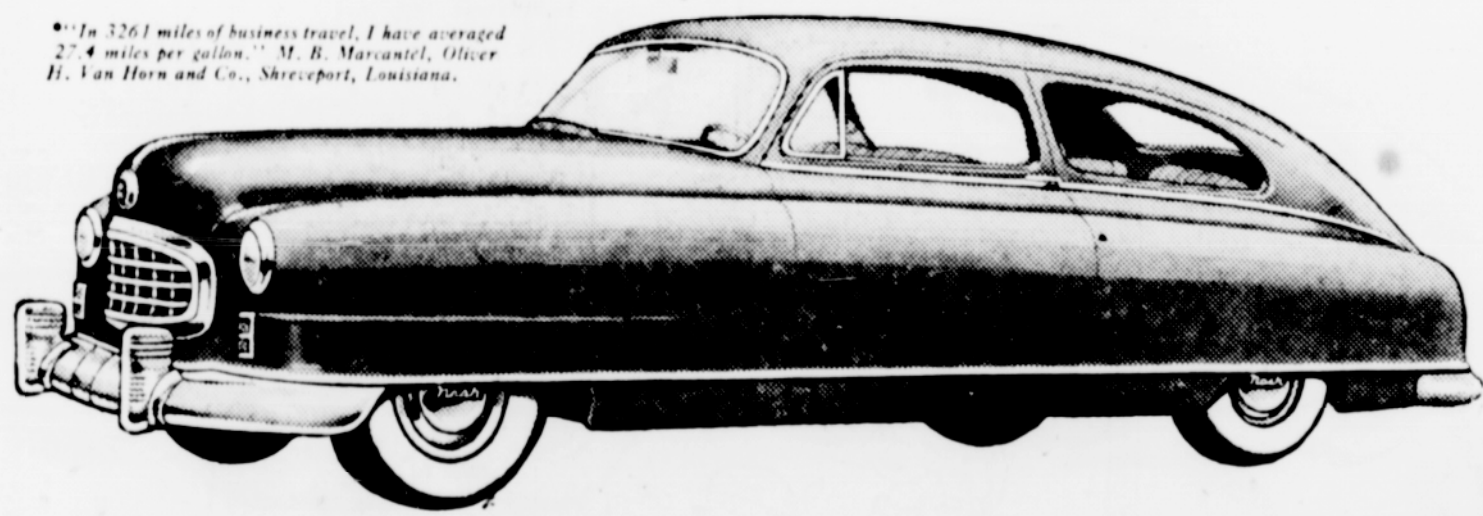
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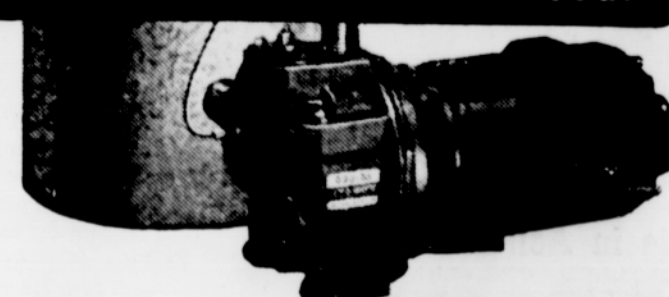
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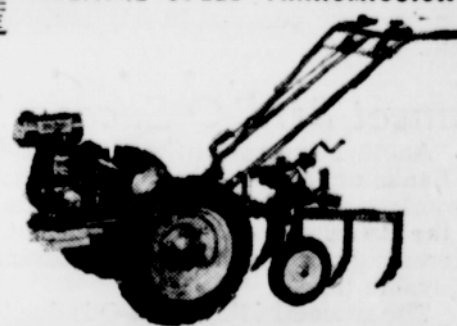
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