



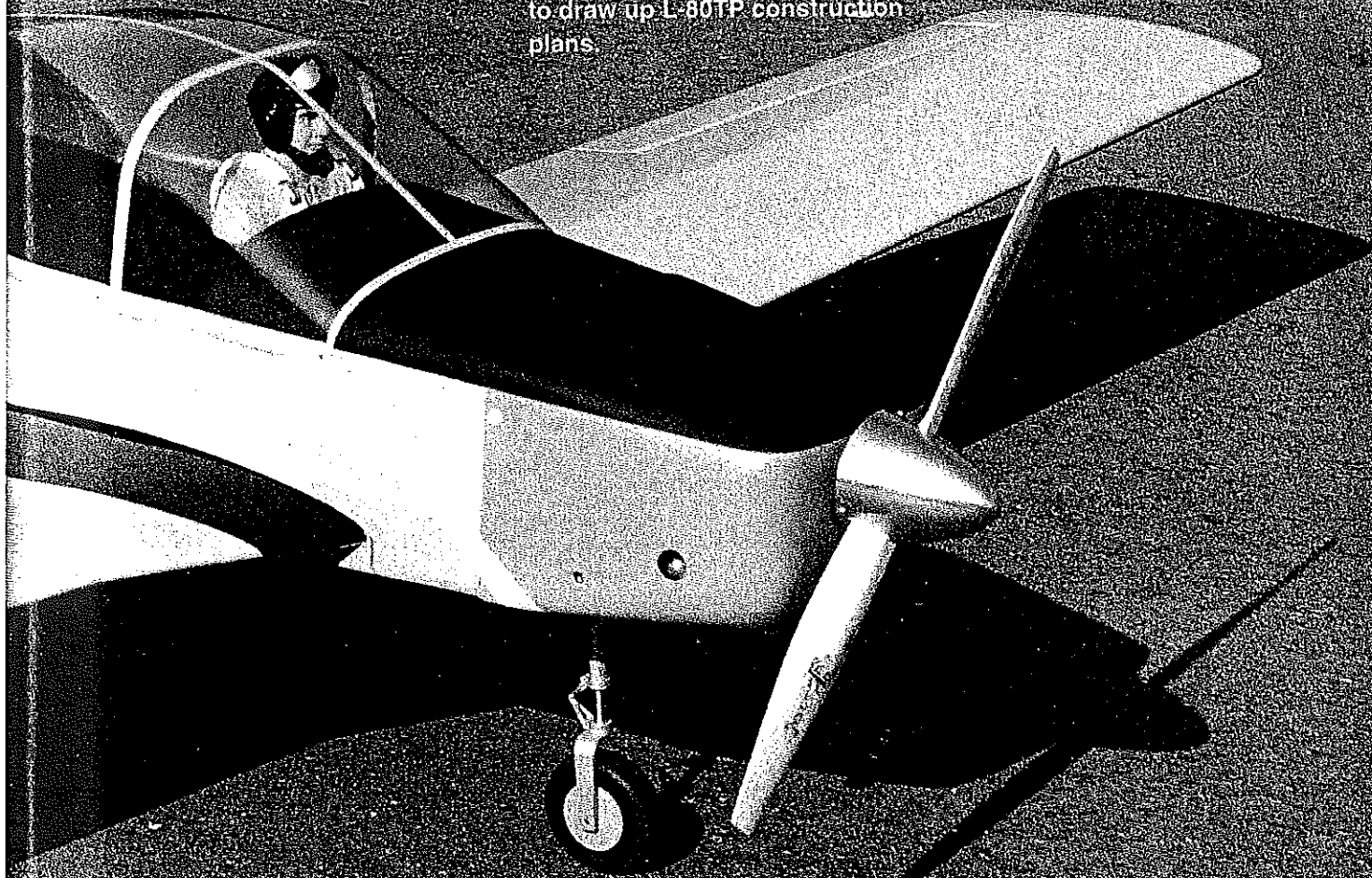
Big picture: With outlines that are very close to scale and a precisely scale paint scheme, Redigo is fast, stable, and does sparkling aerobatics. Above: Author/designer Dick Sarpolus (left) and builder Lance Schneider give scale to their classy-looking 22½-lb. design.

means "a cold Arctic wind") first flew in 1975. A two- or four-seat trainer, it had a constant-chord low wing of generous area, a very large canopy, sweptback fin and rudder, and fixed tricycle landing gear. The aircraft appeared ideal for a large Scale project.

My friend Lance Schneider, who was looking for a new modeling subject, liked the general appearance of the L-70 but was unenthusiastic about the constant-chord barn door wing—he's a hot, high-aerobatic performance fan. Then in 1984 we learned that Valmet had updated the craft to the L-80TP with a turboprop power plant, tapered wing, and retractable landing gear. That was more to Lance's liking, and he began bugging me to draw up L-80TP construction plans.

Kalevi furnished additional photos and drawings. Before the plans were begun, however, Valmet had moved on to the L-90TP Redigo, which incorporated a variety of detail changes apparently determined by flight tests with the L-80. For example, three vertical fins were added to the fuselage bottom, presumably for increased stability and/or spin recovery aerodynamics. More photos and drawings arrived from Finland, and Lance really started putting on the pressure.

Little did I imagine that, from initial planning to first flight, the Redigo project would stretch out for about five years. Still, it was well worth it.



# VALMET Redigo

**Large, aerobatic, and definitely uncommon, this 94-in.-wingspan, 22½-lb. almost-scale RC model of a Finnish trainer is sure to win admirers at the field.**

### ■ Dick Sarpolus

ONE reason for scratch-building a model, whether from your own design or another builder's plans, is to have something a little different at the field.

Mustangs and Cubs are nice. They also can be plenty of fun.

But when your airplane looks so distinctive that your flying buddies come up and ask you what it is—well, that's fun, too.

"That's the Valmet Redigo," you oblige, adding that the design is based on a two- or four-seat trainer prototype from Finland.

Besides its robust size and unfamiliar good looks, this sport Scale model delivers sparkling aerobatic performance when equipped with a Zenoah G-82 engine.

Little-known Scale subjects are more difficult to find these days. Like many modelers, though, I enjoy the search. One obvious solution is to turn to the aircraft of other countries. That's how I

with my 1/4-scale Quadra-powered version of the Finnish PIK-15, a two-seat, low-wing trainer/glider tug aircraft published in the March 1986 *Flying Models*, that I turned to Finland—and Kalevi—again when in search of a new sport Scale project.

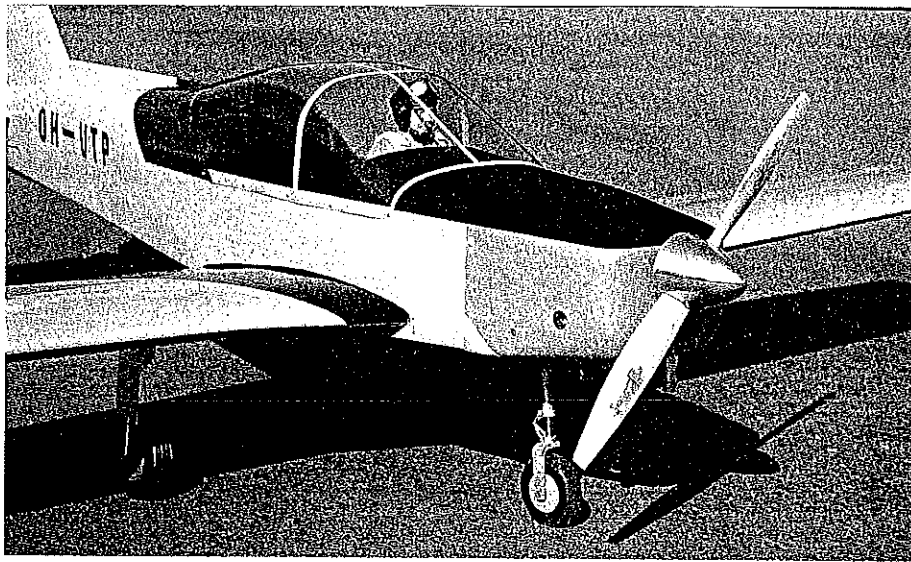
Kalevi sent photographs and detailed drawings of the Valmet Corporation's L-70 Vinka Miltrainer. Built for the Finnish Air Force, the Vinka (which

discovered the Valmet Redigo.

Of course, it helps to have a source of good information abroad. For me, that source is my longtime Finnish RC modeling friend, Kalevi Sundqvist. A skilled modeler himself, Kalevi has provided me with aircraft information for projects in the past. In fact, I was so pleased







Having helped builder Lance Schneider and the author to mold the large clear plastic canopy, Nick Ziroll Jr. and Sr. now offer this item commercially. The fiberglass cowl is available from T&D Fiberglass Specialties. Retractable landing gear and shock-absorbing struts from Impact Engineering add to the scale appearance. The Zenoah G-62 engine pushes the craft into the Pattern league. The 20 x 10 prop and spun aluminum spinner are both from Zinger.



The two-seat cockpit has room for two passenger seats in the rear.

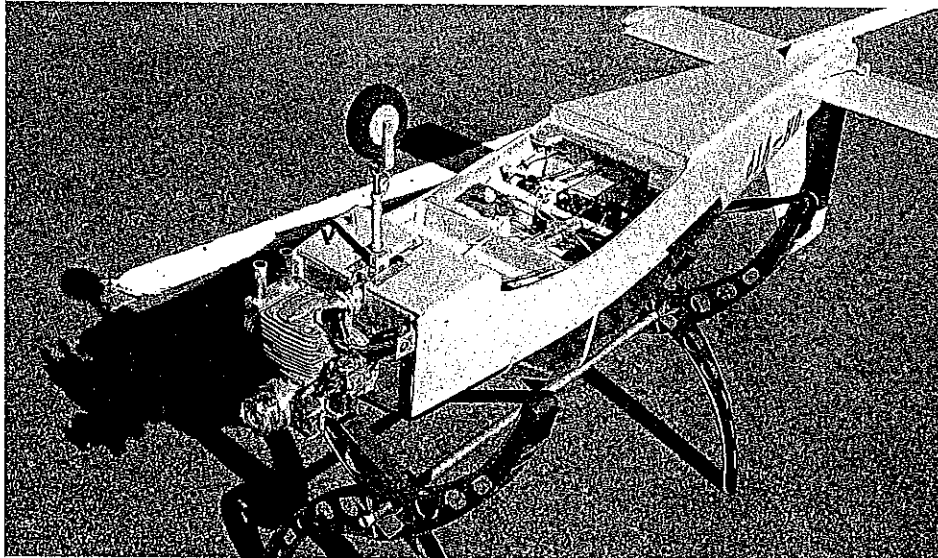
#### Designing the model

Holding as closely as possible to scale outlines, I drew up the plans to a 94-in. wingspan. This provided 1,300 sq. in. of wing area, which I figured would suit a Quadra 50 or Zenoah G-62 engine and a retractable landing gear. The one intentional deviation from scale was to shorten the nose length. Otherwise, the model would probably have come out nose-heavy.

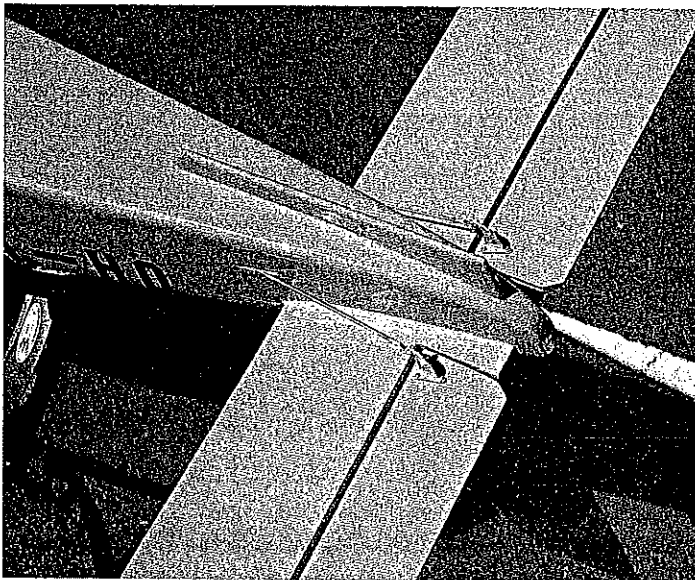
To keep the project relatively simple, we left off the turbine exhaust stacks and the air scoop beneath the cowl. You can add these details if you choose. Likewise, we decided that flaps were unnecessary because of the anticipated wing loading. We're more interested in a sport aircraft that handles well than in an aircraft that's precisely Scale.

All three versions of the Valmet trainer, the L-70, L-80TP, and L-90TP, would make good Scale projects. I intend to draw up L-70 plans for myself in the near future. With its barn door wing, fixed landing gear, and shorter nosed piston engine, the L-70 would be an easier model to build.

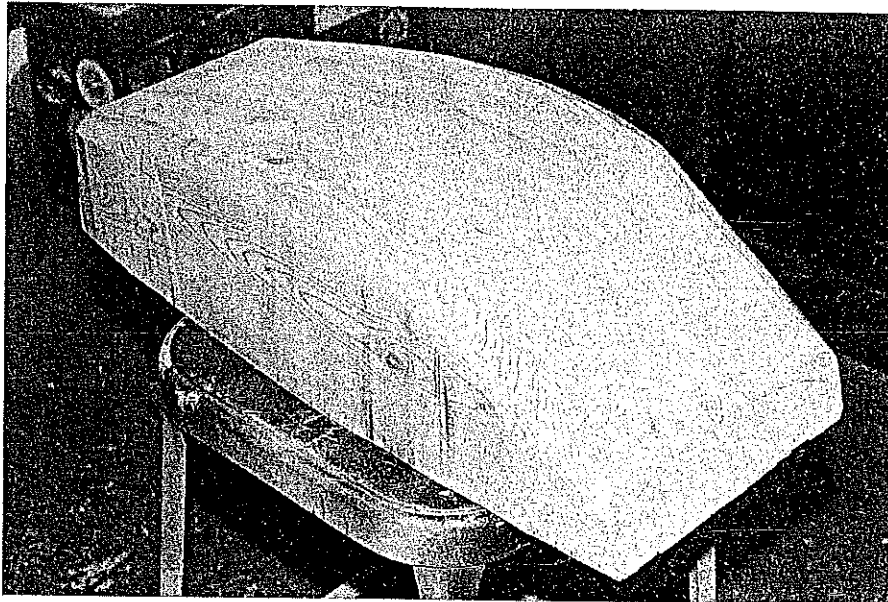
Why not build them all? Send me a stamped, self-addressed envelope (two stamps) for copies of the three three-view



View of the radio installation, Zenoah G-62 engine with B&B muffler, and Impact Engineering retractable landing gear. Note the retract gear air pressure filler fitting on the fuselage bottom next to the engine. The elevators have separate servo/pushrod installations, with a Y-adapter used to the receiver. Other servos are for throttle, rudder, and nose gear steering.



Left: Bottoms-up view of the tail surfaces showing tail skid, stabilizer, and elevators with separate pushrods. Right: Close-up of tail feathers with the model sitting on its field stand. Note sweptback fin and rudder, stabilizer, elevators, and counterbalanced elevator.



Doing it the hard way (but you don't have to). Starting with 11 layers of pine glued together, the author and builder Lance Schneider carved this pine block to shape for use by Nick Zirol Jr. and Sr. as a plug in vacuum forming the Redigo's large plastic canopy.

plywood ribs and hardwood stub spars into the foam cores to receive and support the retract mechanisms. Adjust the location of the ribs, mounting rails, and/or spars to suit the retracts being used. Cut the 1/8-in. plywood rib inserts oversize, then mark and trim them for a flush fit with the foam cores.

Using hot wire cutting tools or a very sharp modeling knife, cut grooves in the foam for the spars, retract mounting rails, and dihedral joiner. Finally, cut holes for the pneumatic lines.

Of course, if you've already built foam core wings for a model with retracts, you may have worked out your own method for supporting the retract mechanisms.

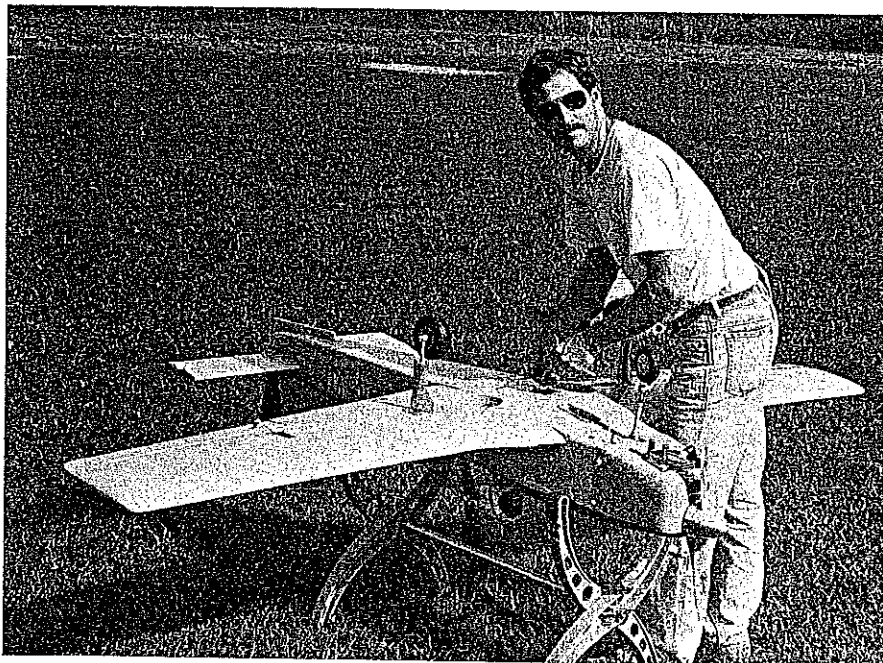
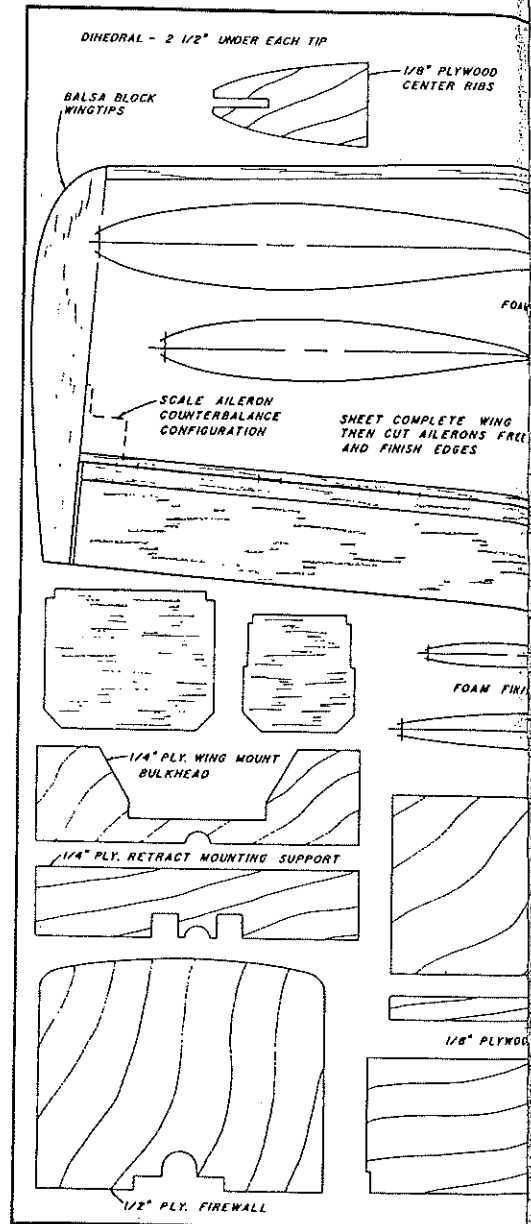
If you use fixed landing gear, I suggest that the wire gear legs be at least 1/4 in. and installed in typical grooved hardwood gear blocks secured with plywood ribs. Make

sure the grooved block extends to the center of the wing, at which location a 1/4-in. plywood wing joiner should be used. Add shock-absorbing struts if desired.

When the plywood ribs and gear mounting provisions have been glued into the foam cores, you're ready to sheet the wing cores on the top and bottom. I use 3/32 medium-weight balsa for all the core sheeting, edge gluing it as necessary to achieve the required width.

As a longtime user of Dave Brown's Southern Sorghum contact cement for adhering sheeting to foam cores, I know I can expect perfect results every time. Other builders successfully use epoxy glue, thinly applied, 3M 77 spray contact cement, or Sig Manufacturing products.

Trim off the leading edges, and block sand them square. Add an oversized balsa



Builder Lance Schneider services his large model on Byron's Craft Cuddler.

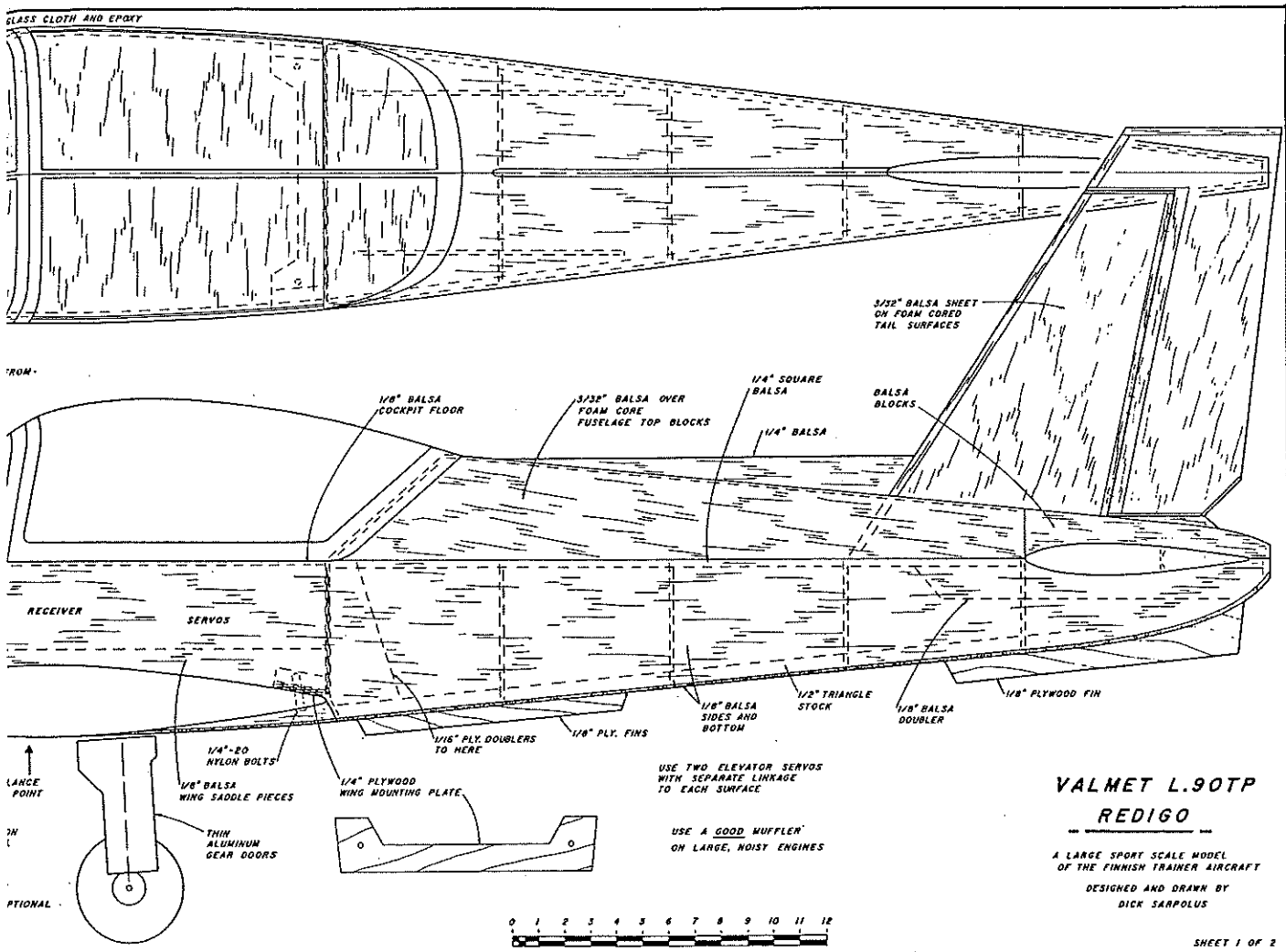
leading edge strip; plane and sand it to shape.

The wing tips are made by shaping balsa blocks. Since large, light blocks are difficult to obtain, I glued smaller blocks together for the needed size.

Cut the aileron sections from the sheeted wing panels, trim them down to allow for the balsa edging, and sand the edges to shape. Bevel the aileron leading edges in preparation for hinging. Install the hinges either along the centerline, as in the prototype, or along the top edge. Use large, sturdy, free-moving hinges, and don't skimp on quantity.

If you choose to include flaps, cut the appropriate sections from the wing and finish them off as you did the ailerons. Hinge the flaps along the lower edge.

Cut recesses in the lower wing surface for the aileron servo mounting. Glue the mounts into the wing. I use a piece of 1/4-in. steel rod for the aileron servo extension cables, heating its end and pushing it through the foam core from the root to the aileron servo location. Removable thin plywood hatches



rugged enough to do the job. One drawback is the forward location of the actuating cylinder on the nose gear unit; Lance machined away a portion of some of the cylinder fins on the Zenoah G-62 to provide clearance for the retract mechanism. We don't think this will affect the engine. While I can't say the retracts have been completely trouble-free so far, that's probably because ours was one of the first production sets. The few bugs we ran into are being (or may already have been) worked out.

Lance was right. The plane looks and flies great with the wheels tucked up. If, however, you want to save money and simplify the project, go with fixed gear.

The prototype came out at 22½ lb., for a wing loading of almost 40 oz. per sq. ft. That's a bit high, but models of this size can fly at a higher wing loading and still handle comfortably.

We covered the design with MonoKote, replicating the color scheme of one of the full-scale test aircraft. Lance plans to give a future Redigo a more striking appearance with a very bright, air show-type finish that is decidedly nonscale.

We've found the Zenoah G-62 to be a great engine. Brand new, it turned a 20 x 10 Zinger at 8,400 rpm on the ground, so we expected good flight performance. We weren't disappointed. Its large size

### RC Valmet Redigo

**Type:** Sport Scale  
**Wingspan:** 94 in.  
**Recommended engine size and type:** Zenoah G-62 (40-50cc engine would be adequate)  
**Number of RC channels recommended:** Five (six, if using the optional flaps)  
**Expected flying weight:** 22½ lb.  
**Type of construction:** Built-up foam-and-balsa/plywood  
**Type of covering/finish recommended:** MonoKote

notwithstanding, the Redigo is as aerobatic and fast as it is sleek to look at. Stable yet agile, the model flies like a Pattern aircraft with the G-62.

The first flight was awesome; Lance is a good pilot, and the Redigo's performance impressed everyone. While I'm convinced that a Quadra 50 or even a less powerful engine would deliver reasonable scale performance, the G-62 turns the plane into a tiger.

#### Construction

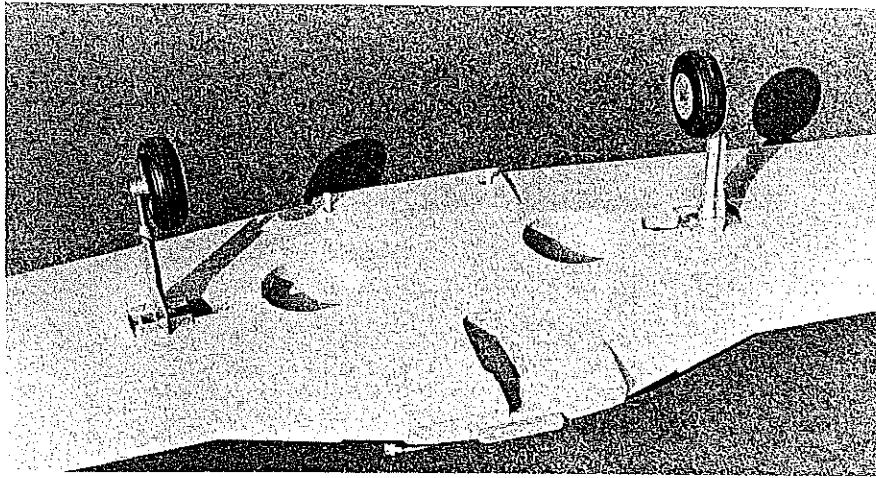
Typical sheeted foam-and-balsa/plywood built-up construction is used. The structure

is straightforward and uses the fewest parts possible. If you haven't scratch-built from plans before, be assured that this is a relatively easy project.

**Wing.** The foam core wing requires one preliminary step. A section at the wing root is cut out and replaced with a separately cut forward extension piece to provide the distinctive swept-forward leading edge angle. The new configuration is similar to the P-51 Mustang wing planform.

Once you've created the leading edge forward sweep, complete the structure as you would any foam core wing.

Before sheeting the wing, insert several



The wing has been turned upside down to show the retract mounting, wheel well openings, and wing mounting. The thin aluminum gear doors are secured with silicone rubber. Two nylon bolts and a heavy plywood tab in the leading edge provide the wing mounting. The third recess in the leading edge (foreground) is for the nose gear retract.

drawings and a few photographs. My address is 32 Alameda Ct., Shrewsbury, NJ 07702.

Redigo uses familiar construction techniques, well proven on several earlier projects.

In my experience, foam-cored wing and tail surfaces are the quickest and easiest way to go for scratch-built models of this size. The foam cores save a great deal of design time, and the weight comes to a reasonable figure. I doubt that a built-up rib, spar, and sheet structure of sufficient strength could be achieved at a comparable weight. The fuselage configuration, with its straight, tapered tail section, also lends itself to the use of foam-cored upper portions.

This wasn't a difficult model to design. As noted, except for the nose length, exact scale outlines were followed as closely as possible. With a lighter weight choice from among the available large glow engines, one could probably keep the nose length to scale proportions.

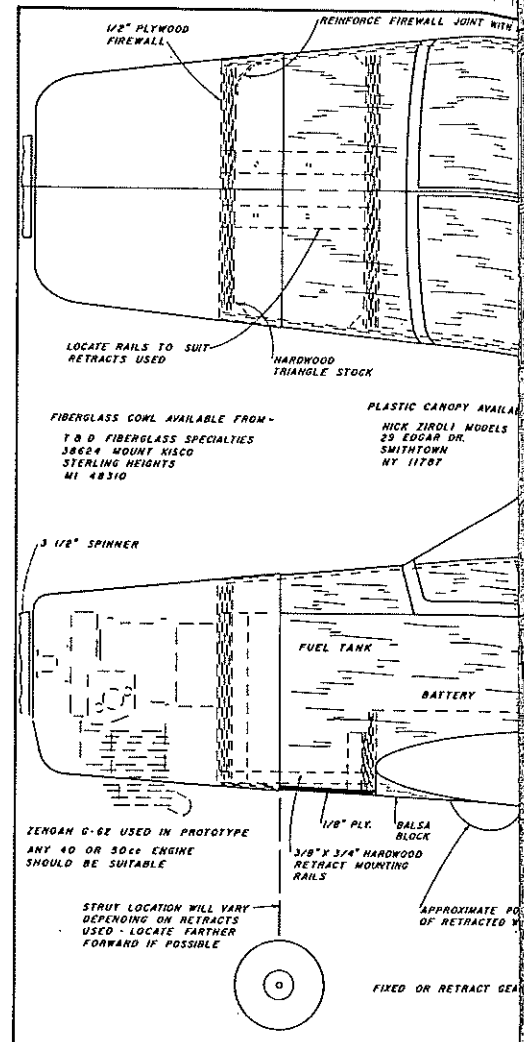
The scratch-built cowl shape should be

fairly easy to duplicate. A fiberglass cowl, however, is available from T&D Fiberglass Specialties, 38624 Mount Kisco, Sterling Heights, MI 48310; telephone (313) 978-2512.

The full-scale Redigo uses a modified NACA 63-218 airfoil at the root and a modified NACA 63-412 at the tip. The root is set at 3° positive incidence; the wing has a built-in 3° washout twist. From the drawings in my possession, I judged these airfoils too unusual in appearance for an RC airplane. Instead, I drew up a nonscale, fully symmetrical, 16% thick wing airfoil section, similar to others with which I have achieved good aerodynamic and overall flying characteristics.

If no service for cutting foam cores is available in your area, I recommend Aerosmith Model Aviation, RD #1 Box 290, Athens, NY 12015; telephone (518) 945-1091.

The large clear plastic canopy presents the single difficult challenge for a scratch-builder undertaking this project. This is a



big one: over 24 in. long, 11 in. wide, and about 6 in. deep. It isn't easy to find canopy vacuum-forming capability of that scope.

We were lucky. Well-known modelers Nick Zirolis Jr. and Sr. helped us out with their vacuum-forming equipment. Lance and I carved a plug from pine boards glued together (quite a task), which the Zirolis used to pull a few canopies for us.

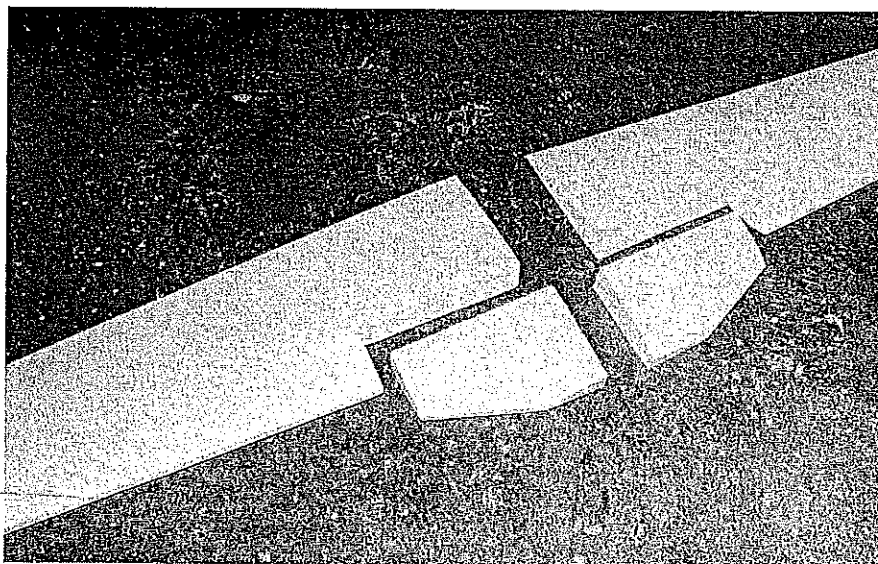
But not to worry. The Zirolis are now offering the canopy commercially. Details are available from Nick Zirolis Models, 29 Edgar Drive, Smithtown, NY 11787.

I had some doubts about using retractable landing gear. I was concerned about the added weight of the gear mechanisms and the need for more supporting structure, and worried about the reliability of retracts. Also, they do cost some money.

But Lance was the builder, so the decision was his. He thought that the clean aircraft layout would look so good and fly so well with the wheels pulled up that retracts were the only way to go.

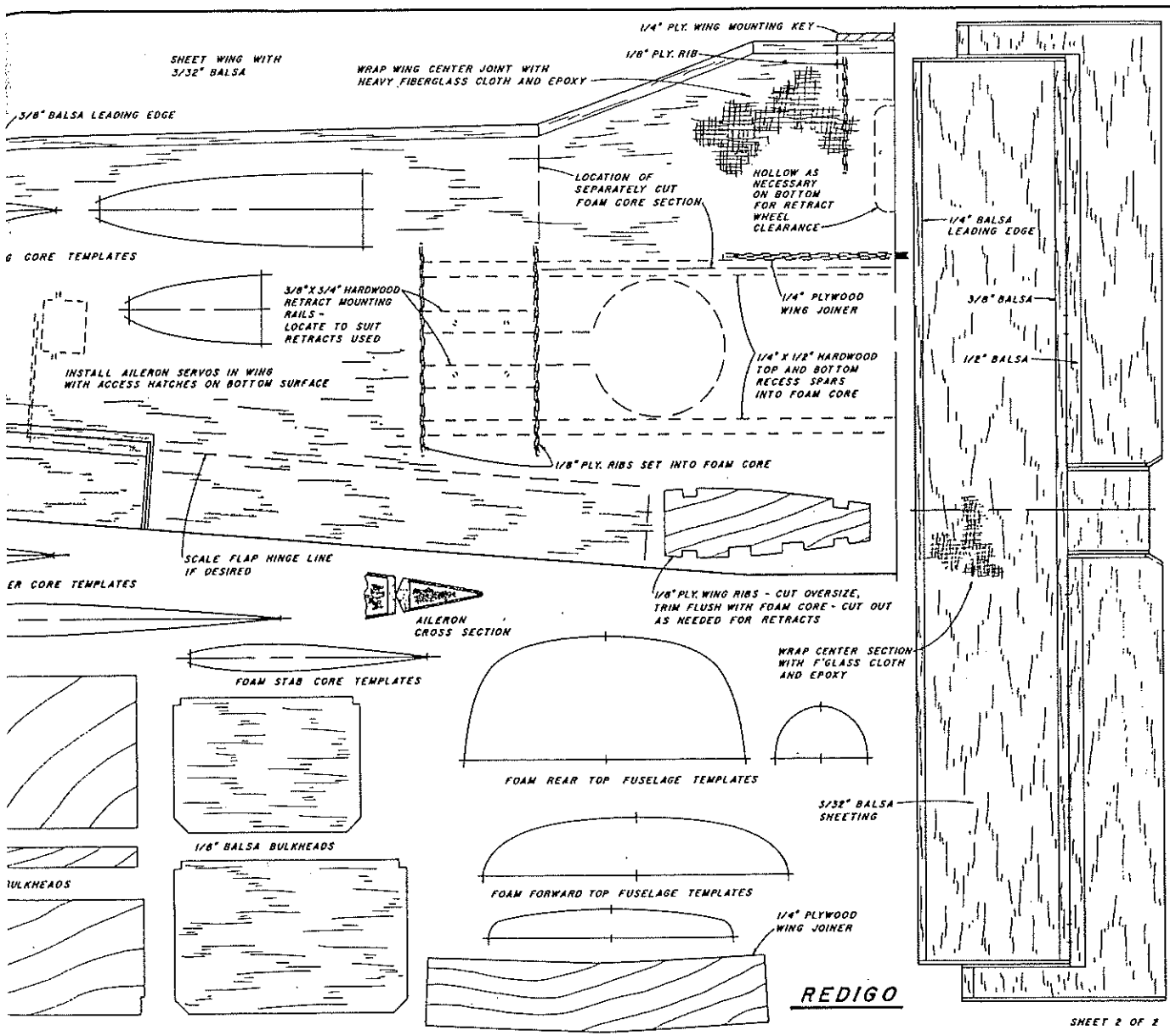
We found several types of commercially available retracts that we thought suitable. The Dave Platt and Impact Engineering designs both looked good. We finally used the Impact gear, along with shock-absorbing struts from the same company, for a scale appearance.

The gear appear to be well designed and



The forward-swept wing leading edge is created by slightly modifying standard foam-core cutting techniques. The main panel is cut conventionally, then notched to accept the separately cut forward extension piece. The foam core parts are glued together and sheeted as usual.





can be installed over the servo areas.

For positioning the wing, we used a 1/4-in. plywood wing mounting key at the leading edge rather than the customary dowels. The key is reinforced by the plywood ribs near the foam-core root. I like this method because the contact area of the fuselage bulkhead that retains the wing mount can be trimmed or shimmed as necessary to achieve the correct wing-to-fuselage fit. Be sure the plywood key extends only a quarter-inch forward of the leading edge, since it rests in the recess of the fuselage wing mount bulkhead.

Butt glue the wing halves using the plywood joiner and plenty of epoxy. Wrap the center joint with heavy fiberglass cloth and epoxy.

**Fuselage.** Select firm-to-hard balsa for the 1/8-in. sides, edge gluing and splicing the wood as necessary for the size you'll need. Install the 1/16 plywood doublers, balsa wing saddle pieces, stab saddle doublers, and balsa corner strips to both fuselage sides.

Add the bulkheads, using the plan top

fuselage view as a guide to assembly. You'll need to bevel the edge of the 1/2-in. plywood firewall to fit it properly to the curved sides. Add the 1/4-in. plywood wing bolt plate, then pull the tail end together to install the rear bulkheads, keeping the fuselage straight.

The sides taper to the rear in a straight line from the wing trailing edge position to the tail, ensuring that the straight-cut foam top block will fit correctly. The balsa cockpit floor strengthens and stiffens the fuselage assembly.

Reinforce the firewall installation with heavy fiberglass cloth and epoxy, installing it over the hardwood triangle stock behind the firewall. I also install several small screws through the sides into the firewall for extra security against the vibration of the large engine.

Sheet and trim the foam core top pieces with 3/32 balsa, and glue them in place. Before sheeting the bottom, cut holes in the rear bulkheads for the elevator and rudder pushrods. It's best to postpone adding the bottom planking until after the tail surfaces

have been installed and the wing has been fitted to the fuselage.

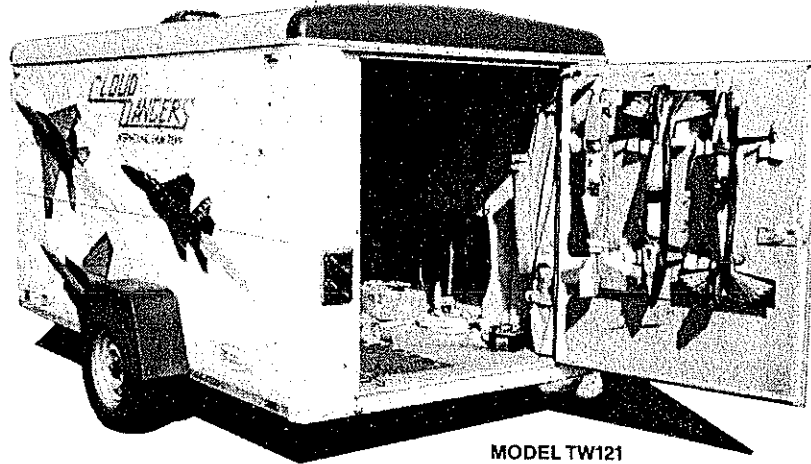
Fit the wing to the fuselage, adjusting the fit of the wing mounting key into the bulkhead as necessary. Drill through the wing trailing edge for the mounting bolts. Tap the plywood fuselage wing mount to accept the 1/4-20 nylon bolts. If you're using an engine other than the Zenoah G-62, it may be necessary to install plywood spacers behind the engine mount in order to properly locate the propeller.

For fixed landing gear, attach a heavy-duty nose strut to the plywood firewall. For retracts, cut the firewall as necessary and install hardwood mounting rails for the retract mechanism between the firewall and the adjacent bulkhead. Depending on the engine and retracts used, you may have to cut away some of the cooling fins on the engine cylinder and head to provide clearance for the retract unit.

The nose wheel, when retracted, is not completely enclosed in the fuselage; a portion protrudes from the bottom of the aircraft.

Continued on page 146

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## Valmet Redigo/Sarpolus

*Continued from page 37*

The fiberglass cowl is trimmed as necessary to clear the engine cylinder, exhaust, and landing gear. Tap the fuselage sides for threaded nylon bolts to be used in mounting the cowl.

With the wing bolted to the fuselage, build up a lower section, glue it to the wing bottom, and shape it to blend into the rear fuselage section. Similarly, shape a balsa block to contour with the bottom forward fuselage, and glue it to the bottom of the wing.

Trim the large plastic canopy to fit, then secure it with small screws to the lower edges of the fuselage side. Add simulated interior cockpit details to suit. Since the Redigo is set up for two-person side-by-side training with room for two rear passenger seats, up to four figures could be used for extra realism.

Tail surfaces. Sheet the tail surface cores with 3/32 balsa. Join the horizontal stabilizer panels, reinforcing the joint with fiberglass cloth and epoxy. Cut the surface apart along the hinge lines, allowing space for the added balsa edges. Finish off the edges, install the hinges, and glue the stabilizer into the fuselage.

Glue the vertical fin to the stabilizer and into the top fuselage piece. The rudder linkage can be handled with a torque tube arrangement extending through the stab; since the hookup to the pushrod will be internal, be sure to make it secure.

Shape the balsa blocks to be installed aft of the fuselage top on each side of and behind the fin. When the blocks are in place, make the three small, fixed vertical fins and attach them to the fuselage bottom.

Control surfaces. Recess the control surfaces to accept 1/4-in. plywood pieces for mounting the nylon horns to the ailerons and elevators. Epoxy the plywood mounts into the control surfaces, and attach the horns with small screws. I recommend using the larger 4-40 threaded rods and clevises for all linkages. Use fiberglass tube pushrods for the elevator linkages.

Make the fuselage servo mounting from 1/4-in. plywood. The elevators are actuated by separate servos, each with its own pushrod. This allows the pushrods to be perfectly straight. Since the pushrods cross over within the fuselage, one of the elevator servos must be mounted about 3/8 in. higher than the other to prevent the pushrods from rubbing together.

Use aileron extension cables to make a Y-harness for the two aileron servos mounted in the wing. Another Y-harness is required for the two elevator servos.

We used a 1,200-mAh battery pack wrapped in foam rubber. It is positioned behind the wing trailing edge, where its weight is required for balance.

Landing gear, wheels, engine, and fuel system. For appearance' sake, we cut the main landing gear doors from thin aluminum and affixed them to the retract struts with silicone adhesive. We may add landing gear doors for the nose gear as well.

Robart's scale wheels look good on this model. To adequately support the Redigo's weight, however, the wheels require Robart's internal foam tire "doubblers." Order these direct from the manufacturer.

We used a 16-oz. fuel tank. There's room for a second 16-oz. tank for a smoke system, if desired. The ignition cutoff switch is mounted forward of the firewall; the switch

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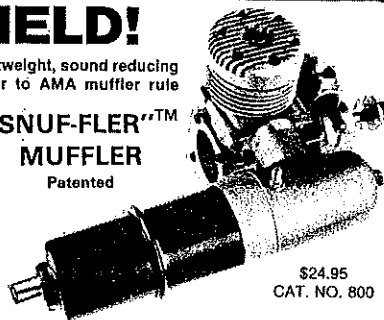
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handle protrudes slightly through the fiberglass cowl.

The propeller is a Zinger 20 x 10, used with a Zinger 3 1/2-in. spun aluminum spinner.

Cut a hole through the cowl for easy access to the carburetor. Install the air pressure filler valve for the retracts in the fuselage bottom nose section.

We used a B&B muffler on the Zenoah G-62, cutting the cowl for clearance around the muffler. Unfortunately, the noise level is still pretty high. I don't know of any really effective commercially available mufflers that fit the G-62, but add-on units such as the J'Tec Snuffler could be hung externally below the fuselage. Wouldn't look so good, but unless your flying field location can tolerate the noise, you might have to quiet down that Zenoah somehow.

**Covering and finishing.** We duplicated the color scheme of one of the original Redigo test aircraft—gray overall with contrasting areas of black, red, yellow, and blue. The look is scale, yet somewhat understated. As noted, our next Redigo will probably receive a bright, air-show aerobatic-type finish for greater visual excitement.

This is a large airplane, with a large engine. While not exact Scale, it comes pretty close. Using retracts adds to the complexity, and the amount of scale detailing incorporated is up to the builder. Basically, however, you can count on an airframe that's not only quick and easy to build but fast and aerobatic in flight. Redigo is well suited to the sport flier who wants a large model with hot performance. →

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## Zaic Award

*Continued from page 51*

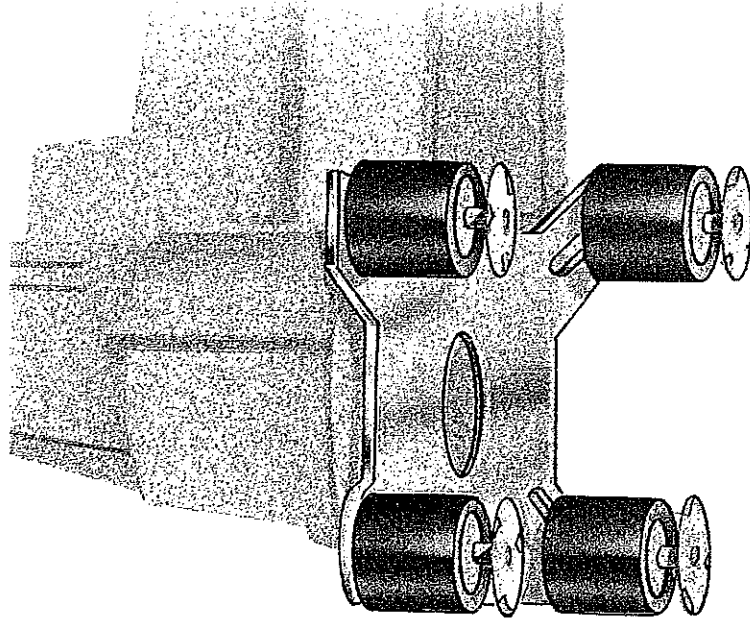
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Frank and his wife, Carmen, enjoy a leisurely retired life in Northridge, California. They have won additional fame for their annual reports detailing their travels around the country and all over the world. These reports have become collector items for the many friends privileged to receive them.

Looking back on the many highlights of a very full life, Frank recalls with special pride that in the early 1930s he was a full-scale glider pilot and that his pilot's license was signed by Orville Wright. Approximately 60 years later, he noted this special distinction at the the NAA ceremony. It underscores the pertinence of the NAA award. →



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## Getting Better Ideas Off The Ground.

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## RC Aerobatics/Van Putte

*Continued from page 71*

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Well, this is a tough one. I don't favor increasing the two-cycle limit above .61 because airplane size would go up (to stay competitive), and I have enough trouble getting my LA-1 in my Ford Probe already! My personal favorite way to promote two-cycle vs. four-cycle equity is to restrict four-cycle engine displacement to .80 or .90. The two-cycle technology seems to be about topped out. We can't keep the engines together for very long now without replacing something.

On the other hand, four-cycle engine

technology is still on the upsweep. With the current 1.20 four-cycle restriction, the disparity between two-cycle and four-cycle engines is going to get worse. A more severe restriction in four-cycle engine displacement is reasonable. Eric closed with:

"It is almost impossible to legislate either morality or economy in a competitive event. However, with good judging, I think it is likely that the pilot who flies the better sequence will win the contest in most cases."

I do agree with that! If anyone would like to see a complete copy of Eric's letter, I'd be glad to provide one if you'll send me a SASE.

If any of you are on Prodigy and would like to send me a message, my ID is CMFB02B. →

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