



SOARING

THIS month, Soaring presents Don Dewey's 70" sport glider, "Erin's Lass." Designed for use with the new decoded pulse proportional systems such as the Uni-Tronics Mustang 200 or the Min-X 1200 with twin Rand actuators, this machine is an excellent sloper. An optional power pod for a Tee Dee .020 is shown for those without access to a suitable slope soaring site.

Erin's Lass was constructed for the pulse proportional systems to prove that a proper design could overcome the drag created by the large flapping surfaces. In fact, this glider penetrates extremely well, is quite fast, and has been flown in winds from 0-20 knots. Both of the aforementioned decoded systems proved to be extremely reliable, although we did prefer the Uni-Tronics system which utilizes the fast pulse rate for up-elevator. Both systems used Rand actuators.

CONSTRUCTION

Begin construction of Erin's Lass with the wing. The ribs are made from medium $\frac{1}{10}$ " sheet balsa. The split trailing edge, top leading edge sheeting, and center section sheeting is $\frac{1}{10}$ " sheet stock. Spars are $\frac{3}{16}$ " sq. spruce. Be sure to include the $\frac{1}{16}$ " sheet webbing between spars as shown on plan. Leading edge is $\frac{3}{8}$ " square balsa. If you desire a permanent power pod, it can be constructed of a $\frac{3}{32}$ " plywood core with a lamination of $\frac{3}{16}$ " soft balsa on either side. The pod is built up of two soft balsa blocks with a $\frac{1}{8}$ " ply firewall. The base of the pod's plywood core can be slotted to fit



over the spars, and the entire assembly sandwiched between the two wing panels when the panels are joined. Be sure to check for proper dihedral. After sanding the wing, cover the center section with a 3" wide band of fiberglass tape and two layers of resin. Celastic may be used, if desired. Cover the wing with colored silk. Dope and add trim, as desired. Engine, of course, is the Cox Tee Dee .020 with $\frac{3}{16}$ "

dia. $2\frac{1}{2}$ " pitch, 3 bladed Thimble Drome prop.

The tail assembly is of built-up construction and should offer no difficulty. Note the lightening holes in the sheet elevators.

The fuselage sides are constructed from $\frac{3}{32}$ " balsa with $\frac{3}{16}$ " square uprights and longerons. $\frac{3}{16}$ " sheet balsa doublers are used in the cabin area. Glue the bulkheads to the $\frac{3}{16}$ " balsa floor, add the sides and top sheeting. Sandwich the plywood skid between blocks. Add nose and top nose block and sand to shape. Add dowels and tail-skid. The celluloid canopy is held in place with small self-tapping screws.

The battery pack (600 MAH cells) are stored as far forward as possible, while the receiver is foam-wrapped in the cockpit area. The Rand actuators are mounted on $\frac{3}{32}$ " plywood platforms in a staggered configuration, the rudder servo being farthest forward. Pushrods used were $\frac{3}{16}$ " dowel with $\frac{1}{16}$ " wire ends.

FLYING

Be sure model balances as shown on plan. Add ballast into nose block if necessary. Hand glide the model on a calm day by disconnecting the pushrods and blocking control surfaces in neutral. Add lead shot, as necessary, to achieve proper glide. Make absolutely certain there are no warps! After it is trimmed, try your slope, or use the power pod. Erin's Lass is fast and penetrates well.

And don't be too surprised at flights of 45 minutes or more!

We'll close off this month's column with a short piece by Dale Willoughby, written at 35,000 feet on the way back from Corsica and the 1967 Internats:

DER ZLOPEZOARER

Zie Zlopezoarer ist gefinished und looken smart on zie worken table. Mit der breezen-shaken der leafen und der sun sparklink der wasser, offen ve tripped to der zlope. Mit der zlopezoarer gestucken under der arm namen und der gezender ve huffen-und-puffen up der zlope and katchen der breatheen mit friendly greetings.

Ve testum zie wind mit der gewet finger und ist gute! Mit gummygand ve fixen dem flugel and checken dem rudder twitchen und hindwing geflappen mit der gezender ist A-OK.

Mit gross hearten palpitation untwitchen der thumbs, de zlopezoarer ist flungen into



der space! Mit eaglesamen flying, der zlopezoarer ist kloudklimben. Ist wunderbar! Klammy hands ist kaput!

Der zlopezoarer ist eyeballen der fish-eatum birds mit louden skreechen in eine gaggle und ist wingflying mit dem. Mit follow-der-leader circlink and thermik-turning is klimben und klimben. Der zlopezoarer ist gesailing in der breitenshining sun, under der wasser in der eyes ist streaming, und der nose ist geticklink — und ACHOO — mit double ACHOO. Meiner friend ist zaying GEZUNDTEIT!

Mit der raggen ist gesoppen der eyes und stufen der raggen in der pocket, und looken und looken . . . DER ZLOPEZOARER ist NICHT!! Und skysweepen der space und der ZLOPEZOARER IS NICHT!!

Mit der throaten dustensame und zwallowen und zwallen und sicken in der hearten und still der ZLOPEZOARER IS NICHT! Mit der twitchen der gezender box mit down-und-right, und UP-und-LEFT und checkun ONE fisheatum birds mit shining wings . . . IST MEIN ZLOPEZOARER und ist Stallen-und-loopings!!!!

Mit der relief und sighen, ist flyen der zlopezoarer in der traffikpattern und landen. Mit der gezender box switchen off, ist gekrappenouten und der ground und ist satisfaction mit der gute zlopezoarer.

— Dale Willoughby



Don Dewey flying Erin's Lass.

RADIO CONTROL MODELER