

November, 1961

BEGINNER

Keith Laumer's latest in his series caters for the controline

SHARPOON

The MODELLER, which limits himself to free-fight is mining half the fine of modelling you'll discover what the other half is all abased when you're built Sharpoon and zeen her performing smoothly at the end of the limits, repositive to you have a second state of the engines and long most the opportunity to use bager deurswind at the end of the flight, You'll discover that there's more to CL plotheng them merchy building of

Start by cutting out the plywood hulkheads (parts FI, F2 and F3). Cut holes for motor bearer (he sure for match then to your engine), and drift undererd halong holes. Bend nose and main undersaritage legs from 12 S.W.G. wire, and lace in position with thread; then coat lacing with centeri, forcing it through holes for rindity.

Next, cut and drill motor bearers and attach to engine;

fit the bearers into bulkheads F1 and F2, positioning carefully, and cement. A polyphenyl resin glue such as LePage's white glue (P.V.A.) is recommended for this

Cut the remaining bata bulkheads, and fuselage ides, and sand edges; add | x i reinforcing gives at bal, and beed rear each of sides as shown. Then joint and bulkmotor mount assembly, and align cardiopther and hold with spring clobes peak of the structure and hold with spring clobes peak of the structure bulkheads, except tability of the structure in mbes.

Install task and fuel line; then cut top slabs from soft 1 in. balas and centent in place; cut and add coult sides and bottom picce; The ergines thould be removed for this operation, and holes cut later. Engine thould be reinstalled and spinner litted before final slapping, to insure smooth lines). Small sides and top of fusilage

RULL SIZE COPIES OF THIS SMALL SCALE REPRODUCTION ARE AVAILABLE AS FLAN CURIS. PRICE 50-PLUS 64, FOST PROMPLANS SERVICE



A 36-inch span aerobatic trainer for -8 to 1-3 c.c. engines (larger sizes can be used by experienced fliers) that combines good looks with simplicity

> Sowe idea of the size of the designer's prototype can be gauged from view helper halding readel. Ught wing loading reader it a fire stant trainer for commun.

smooth, and shape as shown on plan to proper crosssection. Do not sand bottom edge until bottom planking is installed. Cat balas tail assembly parts, assemble rudder and

Los tauta fait acomoty parts, assemble rudder and inflution and usad to streamline cross-sociar. Cleardops and and again; then bend and ife elevator horny being energy and an elevator is a stalplane with liner being energy and the stream and the stalplane horn, and install tuffed. The root, engage in elevator for fait reieforcement in allow from to time away ecough

Add the rudder, alinging it carefully. Note that an off-set tab may be used if disired to increase line tension; this is advisable if you plant to fly in high winds. Woight may be added to the outboard wing-tip for the same purpose.

Cut the double wing spar from the straightest, hardest baba you can find. Coat both pieces with cement and allow to dry; then re-cement and join under pressure (put the assembly under the work-board and sit on ir, if you can't think of a better method).

Notes the pure consention where the radie days after a source of houses. Be sure no to cort models source of the source of the

Add leading edge and tips, bend and install leadouts, then add top and bottom leading-edge planking. Cut slot for front lead-out in centre section. Cut and install cap strips, and plank upper sides of tips. Use a standing block to thispe the entire wing structure to a smooth airfoil shape, as shown on side view. Drill a small hole for the bell-crank mounting bolt, and cut slot for F3 and rear lead-out.

Install the wing now, and cement thoroughly. Slide bulktened 13 in place from the bottom, and add belierank, engaging it with lead-outs and push-rod before installing bolt.

Add fuscing out. Add fuscing bottom planking and sand to shape. Check over entire structure for rough spots, and touch up as necessary. Extrn care at this stage will pay dividends in books and performance later.

Coree wing with Environmith Modelman. For an everdent-finite section of the sec

tor terms. Try to make your first flights on a calm day, over a smooth surface. Be use the model balances well forward. Fuel up with about 2 c.c. in the tank for an fifteen second run; this will be long enough to see how the thip bandles, and in case of incuble, it's a short flight. Try only modest control movements at first, until you get the feel of the model. Don't try that first, loop until your's use!

Larger engines may be installed in SHARPOON for more zip, after the training phase is over.

Tricycle underearriage and shuidder witte make Sharpoon a shutter and the weathweld a desolvening and weathweld a derearried start and a start and all and install integration of the parent narfaces can be really uncoch. Led-cent wires may be fitted extensible under the winter, entering the family smooth the wing near it the hilder to recurst the landson model was celebared while works was celebared while works was celebared while works was celebared while





