

D the UCKLING



BY
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Taking advantage of the throttlable G-Mark .030 R/C engine, our designer has come up with a cute little water bird that's small enough to take along in your fishing tackle box, just in case they ain't biting!

●In the past, the design and development of small radio controlled models has been hampered by the lack of a small engine which could be reliably throttled down so the model could be taxied out for takeoff, then, once airborne, run at a cruising speed rather than zipping around all the time at full power. Some throttles have been made for .049 engines, most notably the Hiscott, but for the even smaller engines, like the .020 and .010 Cox, no throttles exist other than homemade. In my opinion, that is one reason why the Tee-Dee .020 and .010 engines were discontinued: today's radio modeler wants the flexibility of power from idle to full throttle.

When the G-Mark .030 engine appeared, it eliminated the shortcoming of small engines' lack of throttle. The speed range, using a 4-1/2 inch dia. by 2-1/2 inch pitch Cox prop, is from 5,000 rpms up to 20,000 rpms, using Cox "Red Label" fuel, or Sheldon's 40% nitro. Yes, those fuels are expensive, but, as I tell the guys with their .40s and .60s, "You

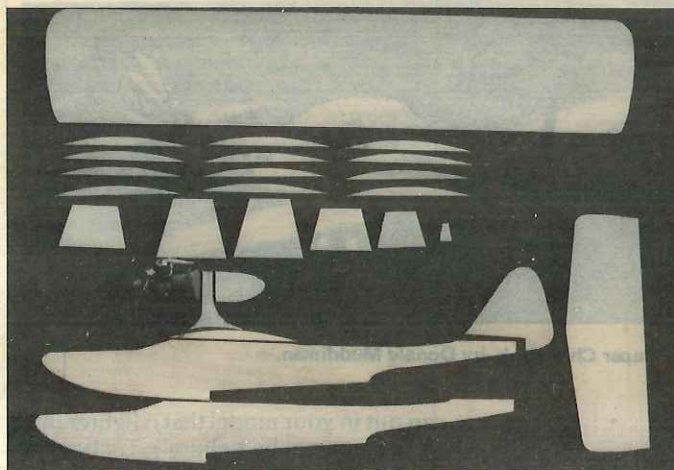
fellows *spill* more fuel in a day's flying that I use." So, the expense is secondary. One two-ounce bulbful will last all day.

The Duckling was specifically designed to use the G-Mark .030 engine. To make the design even more versatile, a quickly removable landing gear can be installed so the model is "amphibious" and can be operated off a runway as well as a pond. The only thing that I did, when flying off water, was to remove the rear half of the muffler on the .030 to make it easier to prime, and also easier to clear out any water which got into the engine when the Duckling decided to dunk. And it does, occasionally, but usually without damage; a quick dryout in the sun and you're ready to fly again. The all balsa sheet construction, when waterproofed with an overlapped Super Monokote covering on the outside, and clear dope on any exposed wood, makes it shed water "like off a duck's back."

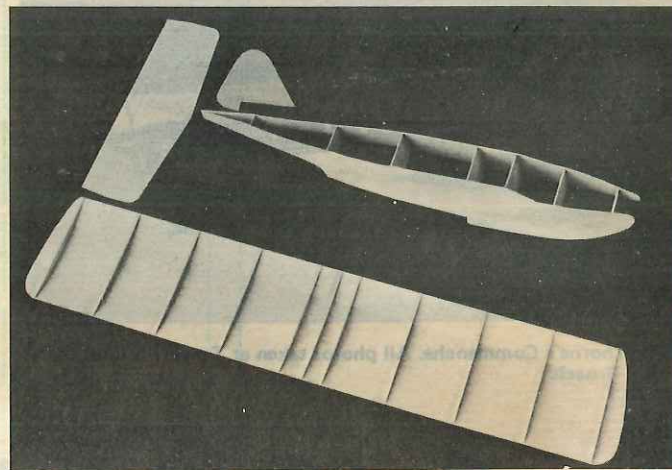
Of course, the size of the Duckling requires that you use small radio equipment. The plans show the Cannon Super



Ken checks throttle prior to making a flight on land. Yes, it was a Sunday!



Best way to build a model of this type is make yourself a kit (or two!) of cut-out parts first. Assembly then goes quickly.



See? Just a few moments later, with a little C.A. glue, and things are taking shape. Waterproofing interior a good idea.