THE RIGHT MATERIALS FOR THE JOB		
PART	REQUIREMENTS	MATERIAL
Wings	Light weight	Balsa
Decals	Must be able to adhere to un-painted balsa	Pressure-Sensitive

Centuri **Mini-Dactyl**

Catalog No. KM-6

MODEL ROCKETEER'S SAFETY CODE

CONSTRUCTION
My model rockets will be made of only lightweight materials such as paper, wood, plastic, and thin metallic foils, with the exception of payloads and engine holders made of wirelike material.

ENGINES
I will use only pre-loaded factory made model rocket engines in the manner recommended by the manufacturer. I will not change in any way nor attempt to reload these engines.

RECOVERY
I will always use a recovery system in my model rockets that will return them safely to the ground so that they may be flown again.

WEIGHT LIMITS
My model rocket will weigh no more than 453 grams (16 oz.) at liftoff, and the engines will contain no more than 113 (4 oz.) of propellant, as prescribed by Federal Regulations.

STABILITY
I will check the stability of my model rockets before their first flight except when launching models of already proven stability.

LAUNCHING SYSTEM
The system I use to launch my rockets will be remotely controlled and electrically operated, and will contain a switch that will return to "off" when released. I will remain at least 10 feet away from any rocket that is being launched.

LAUNCH SAFETY
I will not let anyone approach a model rocket on a launcher until I have made sure that either the safety interlock key has been removed or the battery has been disconnected from my launcher.

LAUNCH AREA
My model rockets will always be launched from a cleared area, free of any easy-to-burn materials, and I will only use non-flammable recovery wadding in my rockets.

BLAST DEFLECTOR
My launcher will have a blast deflector device to prevent the engine exhaust from hitting the ground directly.

LAUNCH ROD
To prevent accidental eye injury I will always place the launcher so the end of the rod is above eye level or cap the end of the rod with my hand when approaching it. I will never place my head or body over the launching rod. When my launcher is not in use I will always store it so that the launch rod is not in an upright position.

POWER LINES
I will never attempt to recover my rocket from a power line or other dangerous places.

LAUNCH TARGETS AND ANGLE
I will not launch rockets so their flight path will carry them against targets on the ground, and will never use an explosive warhead nor a payload that is intended to be flammable. My launching device will always be pointed within 30 degrees of vertical.

PRE-LAUNCH TEST
When conducting research activities with unproven designs or methods, I will, when possible, determine their reliability through pre-launch tests. I will conduct launchings of unproven designs in complete isolation from persons not participating in the actual launching.

FLYING CONDITIONS
I will not launch my model rocket in high winds, near buildings, power lines, tall trees, low flying aircraft or under any conditions which might be dangerous to people or property.

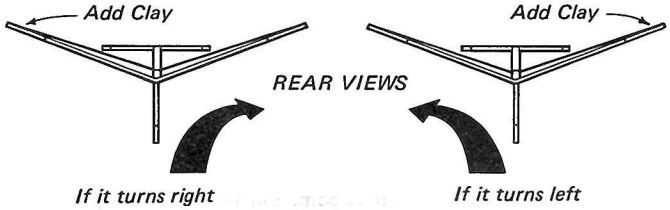
©1973 Centuri Engineering Co., Inc.

IP-706-0873

C. With practice you can launch off the wind so it turns and glides with the wind on a long glide.

D. The MINI-DACTYL GLIDER should circle slightly while gliding. If it glides perfectly straight, it can easily glide out of sight.

If it turns too much to the left, add a little clay weight to the opposite wing tip, and visaversa. Avoid sharp spiraling turns as this drastically decreases performance.



E. Test fit the glider onto the balsa pod mount. The glider should disengage easily. If necessary, sand the inside surfaces of balsa mount hooks slightly. Do not sand too much, or glider will wobble.

F. You should test launch your Mini-Dactyl with a mild-power motor (¼A or ½A) before trying the more powerful motors. A glider that does well in hand-launching may perform quite differently when released from a pod, hundred of feet up. Many fine gliders have done poorly in contests because the contestant didn't take the trouble to thoroughly glide test it first.

G. By now your glider should have passed all its "flight trimming". The Mini-Dactyl glider is one of the easiest boost gliders to trim. If you have trouble, enlist the help of a model airplace hobbist, who can show you the tricks of the trade.

H. Finally, protect the clay by brushing a light coat of clear dope on it. This will firmly adhere the clay to the glider, and will avoid the clay picking up dirt or pebbles . . . which could throw off the flight trimming.

LAUNCHING INSTRUCTIONS

Igniters and complete Mini-Motor instructions are included with all Centuri Mini-Motors.

The single-glider Mini-Dactyl can be launched with any of the following Mini-Motors.

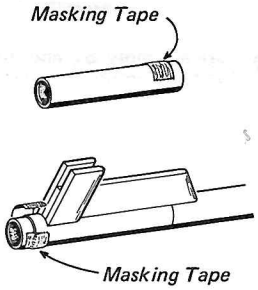
MAXIMUM ALTITUDE CHART	MOTOR	FEET	MOTOR	FEET
ALTITUDES DEPEND GREATLY ON THE PRECISION OF ASSEMBLY AND SMOOTHNESS OF THE SURFACE FINISH. USE LOWER POWER MOTORS (¼A, ½A) FOR FIRST FLIGHTS.	½A4-2M	150	A4-4M	550
	½A4-3M	300	B4-5M	1000

DOUBLE VERSION: ½A4-3M, A4-2M, B4-3M

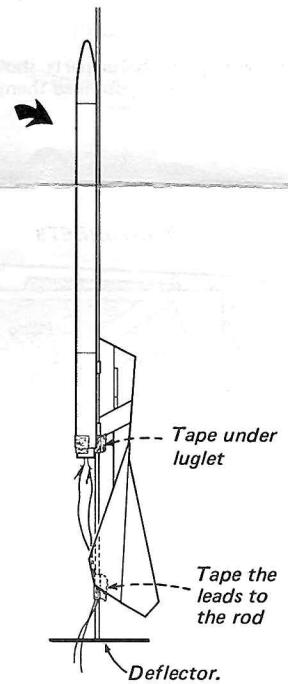
Avoid using the most powerful motors on the first launch. For instance, a "B" motor will fly your rocket so high that you may lose sight of it and be unable to find it again. Or, it may cause, the rocket to recover a great distance away . . . possibly on a roof, or in a tree top. "B" motors are intended for experienced rocketeers, and large launch areas.

FLIGHT PREPARATION

1. Inspect shock cord fastener for firm bond.
2. Insert Flameproof Parachute Wadding according to its directions.
3. Tuck in shock cord.
4. Fold and roll the streamer neatly.
5. Socket nose cone in place.
6. Apply a small amount of masking tape to your Mini-Motor casing . . . just enough to have a good friction fit . . . and insert it into rocket.
7. Apply a narrow strip of masking tape completely around the exposed end of the motor and body tube.
8. Attach the glider and check its fit (loose, but not wobbly).



Avoid short circuiting your launcher's clips by applying tape to the launch rod, to raise the rocket up a little above the deflector. Tape the launcher's leads to the rod, to avoid tangling in the glider. Carefully prepare and check all parts of your rocket before each flight.



Launch the MINI-DACTYL from any standard model rocket launcher having a 1/8" diameter x 36" long steel launch rod.

This rocket is designed to be launched only from standard remote-controlled electrical launch systems. Always use the recommended engines. Comply with all Federal, State, and local laws.

Referring to the specific instructions which accompany Centuri launchers and firing panels, mount the rocket on the launcher and prepare for ignition. Avoid eye injury by capping the exposed tip of the launch rod when not actually launching the rocket.

THE LAST WORD. . .

Any contest boost glider requires a lot of room. Find a really big field. Don't launch in a high wind or you are guaranteed to never see your glider again . . . and somebody in the next county will get an unexpected addition to his airplane collection. It's smart in any case to write your name and address on the glider so it can be returned if it strays a long way from home.