HOW IT WORKS

At peak of flight the Mini-Motor's ejection charge ignites, pushing out the nose cone and streamer (recommended version), or the motor mount ejects itself and the streamer from the rear (alternate version). The rocket descends safely to Earth, on its fluttering streamer. A parachute would be impractical for this "Bird", because of its extreme altitude capability ... a chute on the light weight STAR TROOPER might cause it to drift far away beyond recovery distance.

TOOLS YOU WILL NEED

- Superbond Glue (or "white" glue)
- Fil-Cote (or Sanding Sealer)
- Fine Sandpaper
- Spray Paint (Enamel)
 Modeling Knife
- Pencil & Masking Tape
- Plastic model cement or epoxy glue (for recommended version only)

MAIN ASSEMBLY INSTRUCTIONS

This "Kustom Kit" may be built in either one of two styles. The easier, and recommended style is shown on this side of the instruction sheet. Tips on building the slightly more challenging alternate version are shown on the reverse side. You must read the steps on this side to familiarize yourself with the basic assembly, even if you plan to build the alternate version.

Start assembly by choosing the shorter body tube $(2\frac{1}{2}^{\prime\prime})$ long). Run a small glue bead around the inside of one end, and around the outside of the thrust coupler.

Join the parts with a firm, turning motion until the coupler is about half way in.



2 To draw guide lines for neatly gluing on fins: Stand the body tube upright on its fin guide and mark each position on the tube.



3 Find a convenient groove or channel, such as a door jamb or partially open drawer. Extend the marks into straight guide lines the length of the tube.

4



Remove the pre-cut fins from their sheet carefully, to avoid tearing the balsa. Please notice which edge is the root edge (part that glues to body tube).



Star Trooper

Centur

5 Fins will be glued on in the next step. Be sure to position them as shown, and try to have neat alignment.



6 Use this pre-gluing technique to put your fins on: One at a time, apply glue to the root edge of a fin. Press in place on the fin line drawn on the body tube. Remove the fin, and repeat with remaining fins. Now, apply fresh glue to each fin and re-position on the tube.



Proceed with these other steps while fin joints are drying:

7 Use plastic model cement, or epoxy glue to install the plastic insert into the nsoe cone.



8 Tie one end of the shock cord around the heavy paper shock cord fastener (½" x 1"). Bend it neatly into a half-circle and apply glue to the entire outside surface.







Your STAR TROOPER is now complete. Read the LAUNCHING INSTRUCTIONS before trying to fly it.

ALTERNATE ASSEMBLY TIPS

Tips for building the alternate, more challenging version of this kit are shown below. Please read the main assembly instructions first, if you decide to build this alternate version. The steps shown below are only tips, to be used along with the regular building techniques shown on the other side.

Building this shorter and lighter rear-ejection version will provide higher flights . . . but it is a little more challenging to prep and fly. In this version the ejection motor pulls the streamer out with itself.



film of glue.

Apply thin .

double

knot.

LAUNCHING INSTRUCTIONS

Push in

Slits

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

The STAR TROOPER can be launched with any of following Mini-Motors.

MAXIMUM ALTITUDE CHART	MOTOR	FEET	MOTOR	FEET
ALTITUDES DEPEND GREATLY ON THE PRE- CISION OF ASSEMBLY AND SMOOTHNESS OF	%A4-4M	400	A4-6M	1100
THE SURFACE FINISH. USE LOWER POWER MOTORS (%A, %A) FOR FIRST FLIGHTS.	%A4-5M	700	B4-7M	1800

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.

THE RIGHT MATERIALS FOR THE JOB	NameNam<	 Torrent and a contraint of the standard of the st					
	FLIGHT PREPARATION	3. Drop a tiny bit of flame proof wadding down into the motor casing.					
	LONG VERSION (NOSE-EJECTION)	Mini-Motor					
	1. Inspect shock cord fastener for firm bond.						
	 Insert a very small amount of Flameproof Parachute Wadding according to its directions. 	4. Roll the streamer TIGHTLY and insert it down into the coupler.					
	3. Tuck in shock cord.						
	4. Roll streamer tightly and insert.						
	5. Socket nose cone in place.	Mini-Motor					
	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. Masking Tape Mini-Motor	Streamer 5. Insert the prepared motor assembly all the way into the rocket. Wadding Streamer Motor Coupler					
	7. Apply a narrow strip of masking tape						
	Masking Tape.	Avoid short circuiting your launcher's clips by applying tape to the launch rod, to raise the rocket up a little above the deflector. Carefully prepare and check all parts of your rocket before each flight. Launch the STAR TROOPER from any standard model rocket launcher having a 1/8" diameter x 36" long steel launch rod					
	SHORT VERSION (REAR-EJECTION)	This rocket is designed to be launched only from standard remote-controlled					
	1. Line the coupler up exactly with the forward end of Mini-Motor.	electrical launch systems. Always use the recommended engines. Comply with all Federal, State, and local laws.					

Mini-Motor

 Use very thin tape (such as Scotch tape) to join the Motor and coupler. DO NOT overlap the tape, or your motor will fit too tightly into the rocket.



CENTURI ENGINEERING COMPANY P.O. Box 1988, Phoenix, Arizona 85001 Tape

Deflector

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 launch-

ing the rocket.









Manufactured by Centuri Engineering Co., Phoenix, Arizona

Centuri

STAR

ROOPER

Centurs

Catalog No. KM-3

IODEL ROCKET KIT

high performance

contest rocket

Catalog No. KM-3

THE HIGHEST FLYING MINI KIT! • REAR-EJECTION STREAMER RECOVERY! MOLDED CONE HOLDS RECOVERY SYSTEM! PRE-CUT BALSA FINS!

2-COLOR STICK-ON "DECALS"! HIGH EFFICIENCY LAUNCH-LUGLETS!

Kustom Includes parts for alter-

nate, longer version with nose-ejection streamer.

Motors Not Included

Centuri

contest rocket

Catalog No. KM-3





contest rocket

Centurs IP-696

0873

FOR USE WITH CENTURI MINI-MOTORS

Catalog No. KM-3

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