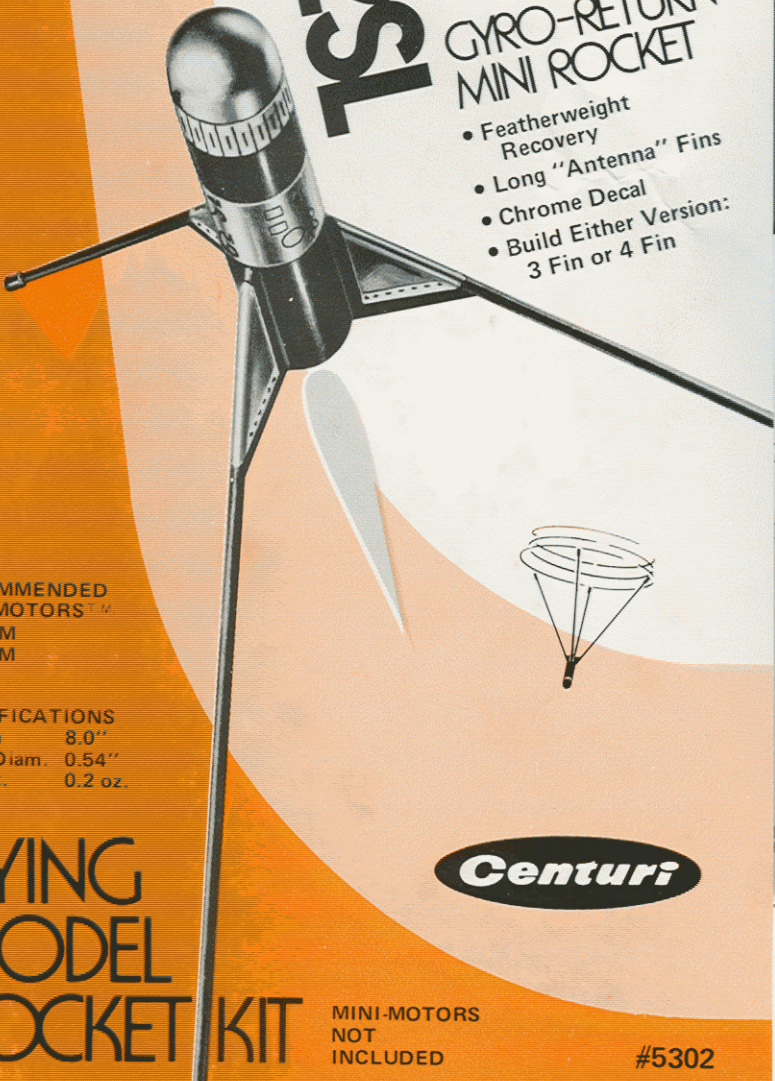


SATELLITE 62SL

GYRO-RETURN MINI ROCKET

- Featherweight Recovery
- Long "Antenna" Fins
- Chrome Decal
- Build Either Version:
3 Fin or 4 Fin



RECOMMENDED MINI-MOTORS™

¼A4-4M
¼A4-5M
A4-6M

SPECIFICATIONS

Length 8.0"
Body Diam. 0.54"
Net Wt. 0.2 oz.

FLYING MODEL ROCKET KIT

MINI-MOTORS
NOT
INCLUDED

#5302

ASSEMBLED LGTH: 8.0" RECOMMENDED AGE: 10 TO ADULT

Made in U.S.A.

Centuri Engineering Co., Inc. Phoenix, AZ 85001

TOOLS YOU WILL NEED:

OPTIONAL

Spray Paint

REQUIRED

White Glue

Scissors

Pencil

SATELLITE 62SL

#5302

Centuri

5	4	3	2	1
Advanced	Intermediate	Beginner		

Engine A	500	Feet
Engine ¼A	200	Feet
Engine ½A	350	Feet
Engine		Feet

TYPICAL ALTITUDES
Altitudes depend greatly on the
quality of assembly and finishing.

081556

Centuri SATELLITE 62SL

HOW IT WORKS:

The SATELLITE 62SL is designed to rocket straight up under rocket power . . . at peak of flight the Mini-Motor's ejection charge ignites, causing the motor to push itself out the back of the rocket. The lightweight SATELLITE 62SL is now free to fall gently back to Earth, spinning rapidly like a 'copters blades (the lightweight empty engine casing tumbles harmlessly to the ground).

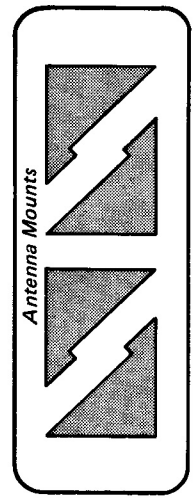
TOOLS YOU WILL NEED:

- Scissors
- Pencil
- Centuri Superbond (or "white" glue) . . . do not use model airplane cement for building flying model rockets.

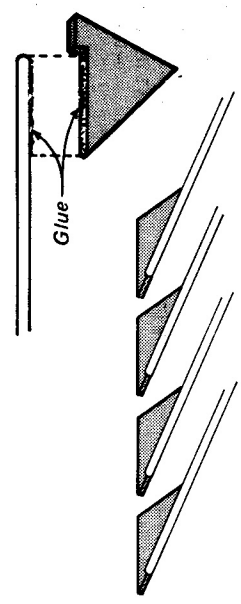
MAIN ASSEMBLY INSTRUCTIONS:

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.

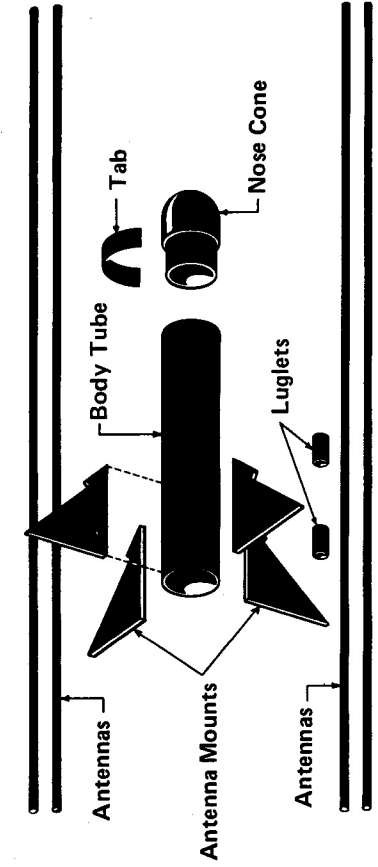
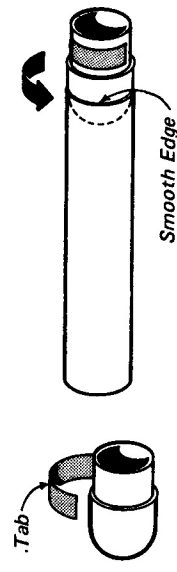
1 Remove the pre-cut antenna mounts from their sheet carefully, to avoid tearing the fibre board.



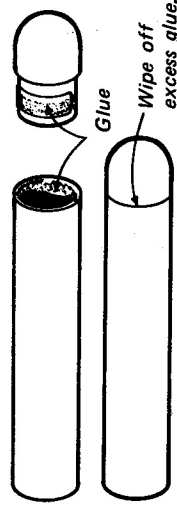
2 Apply a small amount of glue to a mount and antenna as shown, and join the parts neatly. Make all 4 "fins" this way and allow them to dry laying on a flat surface.



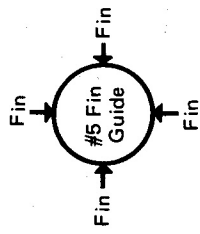
3 Peel the backing from the small pressure-sensitive tab and rub the tab firmly onto the nose cone base. Use the front of the nose cone to smooth the inside edge of the body tube.



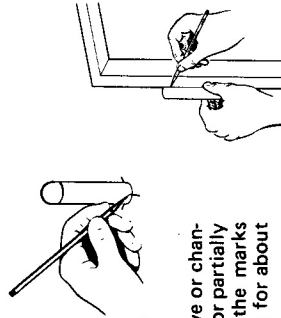
4 Apply a small amount of glue inside the tube and around the nose cone base. Insert cone with a gentle, but firm, turning motion.



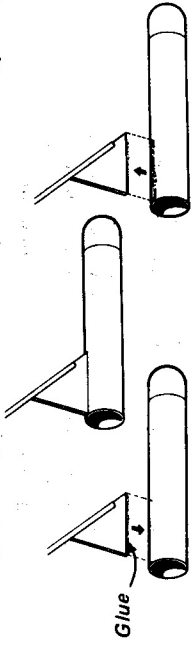
5 To draw guide lines for neatly gluing on fins: Stand body tube on its fin guide and mark each position on the tube.



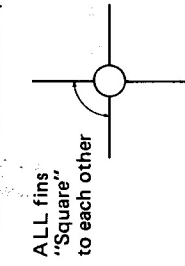
6 Find a convenient groove or channel, such as a door jamb or partially open drawer. Extend the marks into straight guide lines for about one inch along the tube.



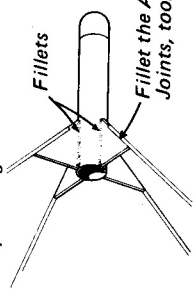
7 Use this pre-gluing technique to put your fins on: One at a time, apply glue to the root edges of the fins. Press in place on the tube. Remove the fin. Repeat with remaining fins. Apply fresh glue to each fin and re-position on the body tube.



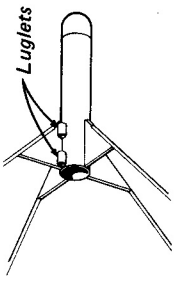
8 Stand the rocket upright (bracing the fins if necessary) and look straight down on it to be sure the fins are lined up "square".



9 When rocket is dry enough to handle, reinforce all glue joints by running a bead of glue along the joint and smoothing into neat "fillets" with your finger.

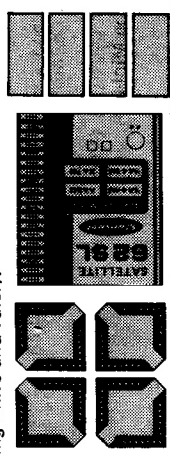


10 Glue the two launch luglets against the base of one fin . . . use enough glue to be sure they are on firmly.



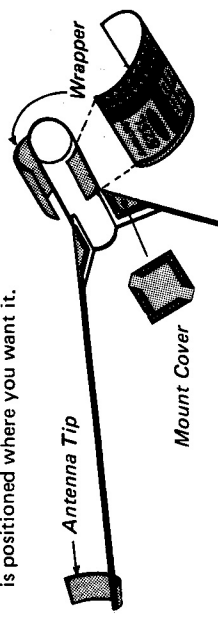
11 The SATELLITE 62SL does not need to be painted, because all parts are pre-colored. If you do paint your model, we recommend using spray enamel . . . Don't use "dope" or lacquer because it may melt the plastic nose cone.

12 Cut the pressure-sensitive "decals" out with scissors (or a modeling knife and ruler).



Mount Covers Body Wrapper Antenna Tips

13 Remove the backing paper from each piece and apply as shown. Rub each "decal" down firmly after you are sure it is positioned where you want it.

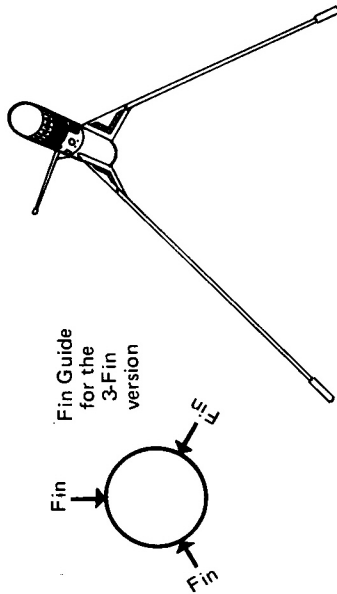


Your SATELLITE 62SL is now complete. Read the LAUNCHING INSTRUCTIONS before trying to fly it.

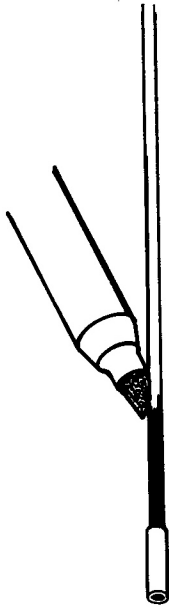
ALTERNATE ASSEMBLY TIPS:

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.

- A** Try using only 3 "fins" instead of 4. The SATELLITE 62 SL will not spin as rapidly this way when recovering, but it will look more like a real satellite.



- B** Make the fins look more like real antennas by coloring the wooden dowels with a black "Magic Marker".



LAUNCHING INSTRUCTIONS:

MOTORS

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

The SATELLITE 62SL can be launched with any of the following Mini-Motors:

MAXIMUM ALTITUDE CHART	MO. NO.	11.1. NO. OF	11.1. NO. OF	11.1. NO. OF
ALTITUDES DEPEND GREATLY ON THE PRECISE SURFACE FINISH. USE LOWER POWER MOTORS, U.S.A. A) FOR FIRST FLIGHTS.	7A4-4M	350	A4-6M	1000
	7A4-5M	600	B4-7M	1650

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

This rocket is designed to be launched only from standard remote-controlled electrical launch systems. Comply with all Federal, State, and local laws. This is one of the easiest rockets to flight-prepare.

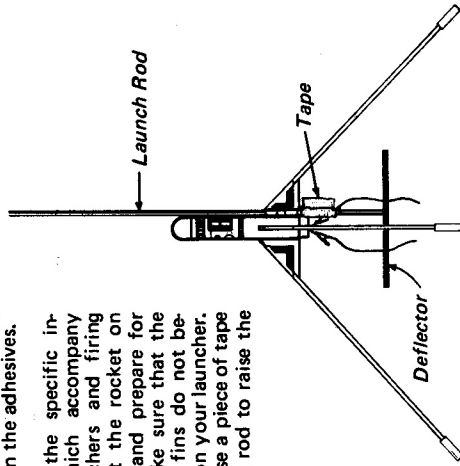
The Mini-Motor must be able to pop out easily when the ejection charge ignites. Simply prepare a motor with its igniter, and insert it into the rocket. If the motor falls out by its own weight, try roughing up the forward end of the motor casing just a little bit, to provide a friction-fit inside the rocket.

Carefully prepare and check all parts of your rocket before each flight.

Launch the SATELLITE 62SL from any standard model rocket launcher having a 1/8" diameter x 36" long steel launch rod.

Do not leave the rocket sitting in the sun for long periods as this may soften the adhesives.

Referring to the specific instructions which accompany Centuri launchers and firing panels, mount the rocket on the launcher and prepare for ignition. Make sure that the long antenna fins do not become caught on your launcher. If necessary, use a piece of tape on the launch rod to raise the rocket a bit.



WHAT MAKES THE SATELLITE SPIN?

Usually the SATELLITE will spin quite rapidly when recovering. This is caused by a combination of reasons: The fins are extremely long and thin, the rocket is very lightweight, and the airstream easily deflects the recovering rocket to spin in one direction or another. This gyro principle will not work on large model rockets. Watch your rocket carefully when you launch it on its first test flight. If it does not seem to spin much when recovering, try adding a tiny tab to the tip of one antenna. Make the tab from scrap "decal" material.

Avoid eye injury by capping the exposed tip of the launch rod when not actually launching!



CENTURI ENGINEERING CO., INC.
P.O. Box 1988, Phoenix, Ariz. 85001

THE RIGHT MATERIALS FOR THE JOB:

PART	REQUIREMENTS	MATERIAL
Nose Cone	• Must resist damage	Plastic
Fins	• Perfect roundness	Wood dowels & fibre board
	• High strength	
	• No sanding or painting	

SATELLITE 62SL



Catalog No. KM-2

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

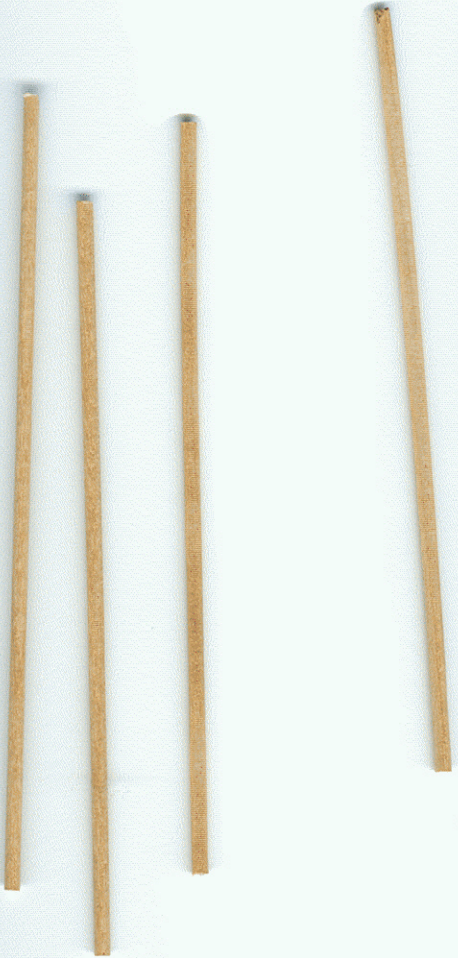
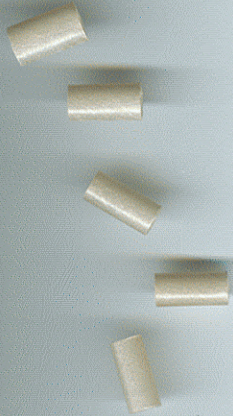
I will not launch rockets so their flight path will carry them against targets on the ground, and will never use an explosive material that is not pointed within 30 degrees of vertical.

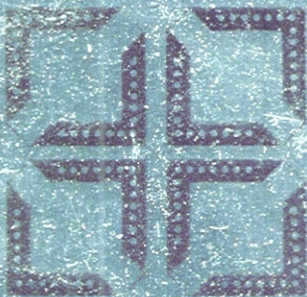
PRE-LAUNCH TEST

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.





SAFETY FILM
625L

SAFARI

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