

Model Rocket Catalog

Good news for Canadian Rocketeers:



See Page 3...

Why, what how.

Flying Model Rockets.

Why?

Why should you know about model rocketry? Because it is the newest. most exciting hobby in the world!

Model rocketry is a hobby that has gained a lot of recognition over the past twenty years. Since the hobby started, just about the same time as NASA, there have been more than 100 million model rocket launchings. Centuri is proud to have been one of the pioneers of the hobby. We've been around almost as long as the hob-by, and we put our experience and care into every product in this catalog. You can be sure you're getting the finest model rocketry products in the world when you buy Centuri rockets.

Just for a moment, picture yourself in the middle of your launch field, surrounded by your friends, as you ready the rocket you've built for launch. You see it poised on the launch pad, then it thunders skyward in a blaze of smoke and flame. It streaks to several hundred feet, and you wait breathlessly for the parachute to open. Then suddenly a bright red and white chute opens over your model, and you know all is well. You watch the model as it returns gently to earth, ready for another flight. That's why model

Many youth groups use model rockets in their programs too. It's just the kind of exciting activity many youth leaders are looking for, because it's something young people are interest-ed in, and it's educational too.

But the most important thing about model rocketry is safety. Rocketry's safety is endorsed by countless or-ganizations including the Boy Scouts of America, 4-H, NASA, the Air Force and government agencies. Centuri adheres to the guidelines and standards set by the Federal Aviation Administration, national Fire Protection Association, Hobby Industry Associa-tion of America, and the National Association of Rocketry. In short, model rocketry has a better safety record than almost any outdoor activity!



What?

SOME FLYING MODEL ROCKETS HAVE DIFFERENT SHAPES & FLIGHT CHARACTERISTICS, BUT MOST ARE

NOSE CONE: This caps the rocket. It can be either plastic or balsa. It guides nie flow BODY TUBE: Made of a special paper tubing, this is the basic "Air Frame" of the roc-ket. Normally all

attached to or con tained within the 'Air-Frame". RECOVERY

Can be either a parachute or drag streamer. Lowers the rocket safely to the ground from apogee - the ighest point of

WADDING:

Flame proof cotton or crepe paper packed in here protects the recovery system from hot engine gases at

LAUNCH LUG: to side of "Air-frame". Holds the rocket on guides rocket

during launch

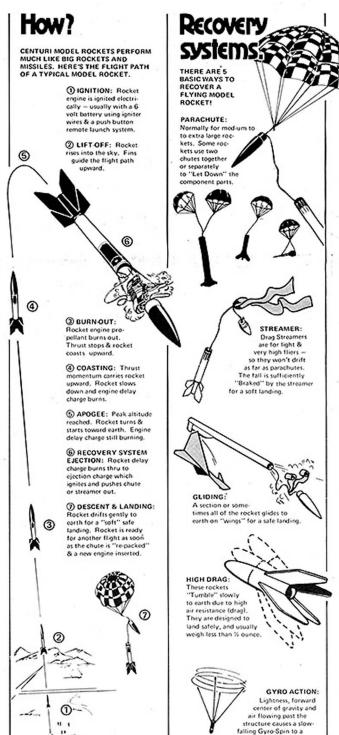
STABILIZER FINS: Made of balsa, fibre or plastic the fins keen the rocket going straight after leaving the launcher.

ENGINE MOUNT:

Glued to "Air-Frame". Engine "pushes" or "Thrusts" against airframe and imparts movement

69

ROCKET ENGINE: Safe, non-reusable propellant device; not supplied with rocket kit. A new engine is needed for each flight.



soft earth landing.

DOELING WORLD JU.S.A. TEAM

1978 Space Modeling World Championships See back cover for full-size picture of SMIVC patch. YOU CAN HELP THE U.S.A. TEAM IN THE "OLYMPICS OF MODEL ROCKETRY"
The third World Championships of model rockets

Get the official U.S.A. team patch! Available only from Centuril

AVAILAble only from Centurii

BIG 3" DIAMETER

FIVE BRILLIANT COLORS

FINE QUALITY EMBROIDERY

STURDY CLOTH BACKING

The third World Championships of model rockets?

(called "Space Modeling" in other countries) will be held in Bulgaria in September, 1978. You can help held in Bulgaria in September, 1978. You can help the U.S.A. team compete with other teams from around the world by buying and wearing the official

Available by mail only from Centuri, the designer's of the official U.S.A. team emblem. All profits from patch tales will be used for team travel expenses. Send \$2.50 (check or money order) payable from patch tales will be used for team travel expenses. Send \$2.50 (check or money order) payable from patch tales will be used for team travel expenses. 1978 S.M.W.C. TEAM PATCH c/o Centuri P.O. Box 1988 Phoenix, AZ 85001

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*Indicates Pages With Newest Products

What it takes to | Things to do build and fly.

ABOUT YOUR ROCKETS:

All Centuri Rockets come in kit form, most include colorful decal sheets. Engines are NOT included except with Kits in "Outlis" All kits contain complete instructions and all necessary parts—most are pre-formed, molded or pre-cut. Simplicity, quality parts, easy construction and clear instructions easy construction and clear instructions make Centuri model rockets hard to beat!

CHOOSING ROCKETS: SKILL-LEVEL

SKILL-LEVEL

Each Centuri rocket has a Skill-Level number assigned in this catalog, indicating a level of building & Ifying complexity. If you are a newcomer to this hobby, we suggest building a Skill-Level 1 rocket. The Eagle Power Outlif gives you everything you need to build & Ify including a launch system - all at a bargain price! Here's a Skill-Level number system found on many packages.

TYPICAL SYMBOL: "Lil" Herc" is Skill Level 1

SKILL LEVEL 2 3 4 5
Beginner Intermediate Advanced

- For the beginner who has no previous modeling experience of any kind.
- 2-Build & flown Skill Level 1 or have some experience in other modeling hobbies.
- 3-Experience in Skill Level 1 & 2 Average modeling chattenge.
- 4 Continued experience such as stagin boost gliders & scale model rockets
- 5-Special configuration on high detail, multi-engine, or advanced gliding models requir-ing a solid background in model rocketry.

HERE'S WHAT YOU NEED:

Not all kits require Not all kits require all types of tools.
Generally, you need a good X-acto type modeling knife, a ruler, scissors, a pencil & a small paint brush. Some kits, like "Screaming Eagle" require no tools at all!

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FINISHING MATERIALS:

The best glue is an "Aliphatic" (Wilhold Titebond) or common "White Glue" like Elmer's. Model airphane cement is NOT recommended as it dries too fast & does not hold well, Kits with balsa parts require "Sanding Sealer" and a line (220-400) sandpaper. Use spray enamel for smooth painting.

There are 2 systems, POWR. PAD is included in all Centuri basic starter outlits, and is complete exbasic starter outlits, and is complete except for battery. POWER TOWER requires the POWR-CONTROL launch controller.

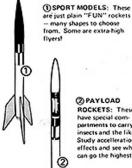
POWER SUPPLY:

Any standard 6 volt lan-Any standard by what ten-tern battery as shown here works with Powr-Pad, Any 6 or 12 volt system (including an auto battery) works with Power Tower & Powr-Control. Do not use house current or a lower voltage than recommended.

ROCKET ENGINES: power to fit your rocket for flights from 50 to over 2000 feet! Sure-Shot igniters ou to over 2000 feet! Sure-Shot igniters & complete instructions are included in each 3-engine package.

and try.

EXPERIENCE JUST ABOUT EVERY THING FROM PAYLOAD EXPER-MENTS TO THE CLUSTERED ENGINE



ROCKETS: These have special com-partments to carry nsects and the like Study accelleration effects and see who can go the highest!

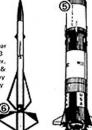


@SUPER SCALE: Exact replicas of the real thing! Some are very easy to build-others are a real challenge to the experienced modeler — ALL are rewarding!

(S) CLUSTER ENGINES: Realism at its best when 2 or 3 thundering engines ignite to lift a giant rocket slowly toward the heavens! Here's the ultimate in the fun & challenge of mode! rocketry!

STAGER: Rear stages of power. These go high & stages return by tumbling safety to earth.

@[



Safety code.

CONSTRUCTION — My model rockets will be made of lightweight materials such as paper, wood, plastic, and rubber without any metal as structural parts.

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 retoad 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 ozs.) at lift-off, and the engines will contain no more than 133 grams (4 ozs.) of propellant.

STABILITY — I will check the stability of my model rocket before its first flight, except when faunching models of already proven stability.

6. LAUNCHING SYSTEM — The system I use to Jaunch my model rockets must be remotely-controlled and electrically operated and will contain a switch that will turn to "off" when released. I will remain at least 10 feet from any rocket that is being launcher

7. 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.

8. 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.

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.

JET DEFLECTOR — My launcher wi have a jet deflector device to prevent the engine exhaust from hitting the ground directly.

11. LAUNCH ROO — To prevent accidental eye injury 1 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 1 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.

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

14, 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 launching of unproven designs in complete isolation from persons not participating in the actual raunching.

SAFETY FIRST!

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NAR ASSOCIATION OF ROCKETRY

The NAR is THE official non-profit organization working for the advancement of model rocketry nation-wide. Open to all serious rocketeers, membership includes competition sporting license, decals, in-surance, and subscription to MODEL ROCKETEER magazine. The NAR establishes stately suiles, certifies rocket engine performance, sanctions rocket contests, certifics national and world records, charters official NAR clubs, produces rocket plans, handbooks, and technical materials, and promotes model rocketry as a safe, exciting activity. For information, writes The NAR is THE official non-profit organi-

NAR Headquarters, Dept. C78 P.O. Box 725 New Providence, New Jersey 07974

Canada. 🌞



Centuri has dramatically increased retail distribution in Canada. We still honor mail orders from Canada, but Canadian rocket-ers can avoid the costly red tage involved in importing rockets products by purchasing Centuri rockets at their local retailer. If your local retailer doesn't yet carry Centuri products, have him contact International Games of Canada, Ltd., 3727 Lenworth Drive, Mississupa, Ontario, Canada L4X 2G8 for more information.

Canadian model rocketeers have associations similar to the NAR (see above) in the United States. These are the organizations to contact for information about local model rocketry clubs and contests:

Canadian Association of Rocketry A Program of the Youth Science Foundation Dept. 6-78 Suite 302 151 Stater St. Ottawa, Ontario K1P 5H3

Conseil de la Jeunesse Scientifique Inc. Dept. C-78 1415-est, rue Jarry C.P. 61 Montréal, Québec H2E 2Z7

Learn more.

SCHOOLS & CLURS:

There are hundreds of independent model rocket clubs in the U.S., Canada, & Europe. Others are sponsored by groups like the Boy Scouts, YMCA, 4-H or Civil Air Patrol, Some are organized by school teachers or groups like Kimanis or city Recreation Departments. Ask around!

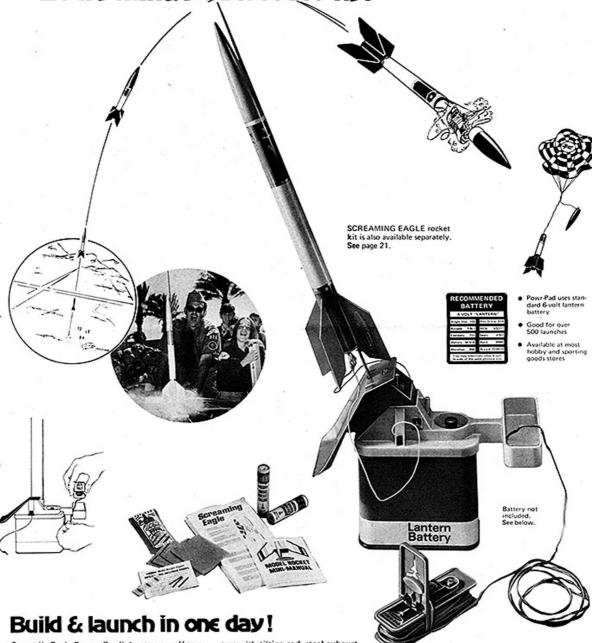
Consumer & Educator Services

Centuri's Consumer Relations Manager, Jeff Flygare (right) is available to handle many questions you may have about your operating your own model rocketry program, Jeff can help you in forming rocket clubs, using model rocketry in schools and youth groups, and other rocketry functions. Educators are particularly encouraged to contact Jeff for help in preparing a "motivating" model rocketry program for schools. You can contact Jeff by writing: Jeff Ebvaser. ulariy spreparing a "mois" you can upgam for schools. You can upgam for sch



Conturs Out of 15

Everything you need to fly.



Centuri's Eagle Power Outfit* gets you off to a flying start in model rocketry! No painting, no sanding & no special tools. Look at what you get • SCREAMING EAGLE rocket kit with preformed tail fin assembly, plastic nose cone, precolored body wrapper, decals & parachute.

POWR-PAD LAUNCH SYSTEM Launch Sys-

tem with tilting rod, steel exhaust deflector, carrying handle, launch controller & safety key, (battery not included*).

• Plus 2 powerful rocket engines, glue, Mini-Manual on model rocketry, parachute wadding, igniters, and complete instructions – THE WORKS!

GET GOING WITH "EAGLE POWER" today!

Shipping Wt. 3 lbs.

Eagle Power

Flying Model Rocket Outfit \$12.00

EAGLE



ROCKETPY EXPLORATION

Complete system for advancing.





Flying Model Rockets.

PLANETARY SPACE CRUISER - FUTURISTIC MARKINGS!

Almost 2 feet tall, TAURUS has the look of the future! This kit is so highly detailed, (one of our most detailed decal sheets), that you'll be proud to fly it or display it! Plastic body reducers, a large molded nose cone, simulated cluster boosters, chrome trim, pre-cut balsa fins & a large parachute make TAURUS a standout-anywhere! Build it - detail it & get ready for REALISTIC SPACE ACTION with TAURUS!



Body Dus.

anaman

PROD, NO. 5033 (Formerly KB-3)

SKILL LEVEL-3

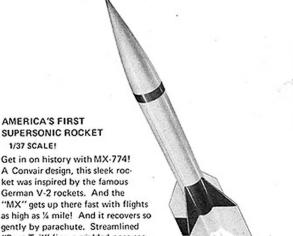
\$475 Shipping Wt. 15 ex.

HI-PERFORMING **BEGINNER'S ROCKET!** EASY FLIGHTS TO 800'!

Get perfect high altitude flights every time with a proven design. This swift rocket has super-stabilizing tail fins. And it goes as good as it looks! Pre-cut balsa fins, plastic nose cone, "quickchange" engine lock, large colorful chute and decals make ASTRO-1 THE CHOICE for the beginner.

SPECIFICATIONS

\$ 3²⁵ Special Property 17 or



Get in on history with MX-774! A Convair design, this sleek rocket was inspired by the famous German V-2 rockets. And the "MX" gets up there fast with flights as high as 1/4 mile! And it recovers so gently by parachute. Streamlined "Boat-Tail" fins, a molded nose section & a special 2-page scale data sheet makes MX-774 an interesting & exciting project!

AMERICA'S FIRST

1/37 SCALE!

250 Shanny At Ser



stealer-every flight!

SKILL LEVEL-4

SPECIFICATIONS

\$450 Shapping ATT. If all



TWO-STAGE GIANT - 3 FEET TALL!

Get ready for Action when this one lifts-off! Slim & trim, LONG TOM streaks up to 1/4 mile high & returns gently with its large parachute. Colored plastic body reducer & nose cone with decal emblems make this one really fun to build & fly. Add Centuri's exclusive "Passport" Staging * and Baffle/Chute Ejection* (no chute wadding necessary!) You've got "SURE-FIRE" PERFORMANCE every launch!

SKILL LEVEL-4

\$600 mm

TWO EXCITING VERSIONS! EAGLE TRANSPORTER KIT

Plastic blow-molded parts make the Eagle Transporter easy to assemble. Large kit includes decals and easy to follow instructions with info about the real Eagle. Recovery by big 20" chute; flight module returns by 12" chute, for dual recovery action!

COMPLETE "SPACE: 1999" OUTFIT

Start flying rockets with the unique SPACE: 1999 Eagle. Outfits also includes POWR-PAD launch system, 4 powerful "C" engines, Sure-Shot igniters, flight supplies and complete in-structions. Everything you need to fly except battery, glue and tools... for a BIG start!

Rocket kit only \$ 900 Ship, Wt. PROD. NO. 5316

Complete outfit \$17.00 Ship, Wt. PROD. NO. 5314 \$17.00 July Wt. Outfit includes kit, engines and launcher



BEGINNERS FEATHERWEIGHT A SNAP TO ASSEMBLE!

Watch this little "BIRD" move out to high altitudes! Super-simple to build, LIL' HERC has no parachute - at apogee the engine is "POPPED" free to let "HERC" tumble ever so gently to earth. Pre-cut balsa fins, a fibre body casing & plastic nose cone make this one an afternoon project of fun and action!

SPECIFICATIONS

RECOMMENDED ENGINES

PROD. NO. 5001 (Formerly KA-1)

SKILL LEVEL-1

\$ 150 500000 500



FLY A WINNER! TWO CHUTES AND MORE!

This slim speedster won the parachute duration event at the First International Model Rocket Championships! VERY sleek, VERY fast, STARFIRE goes VERY VERY HIGH-UP to 1,500'! Then floats VERY slowly down on its extra large chute. You get a small chute too! Pre-cut balsa fins, a streamlined plastic nose cone, boat-tail fin design & special "stars" decal make STARFIRE the real "PRO" at the launch pad!

NA62 846 866 8147 C67

PROD. NO. 5072 (Formerly KC-12)



NASA'S SPECTACULAR DETAILS GALORE & IT FLYS!

So realistic, you'll thrill from the moment of its majestic lift-off to its breath-taking soft recovery to earth. Over 2 feet tall, Centuri's SKY LAB is probably the most exciting flying model rocket you'll ever build! And, we've made it easy with molded plastic parts, chromed solar panels, super-detail large decal sheet, a body

wrapper & much, much more! ALL SYSTEMS ARE "GO" WITH THIS ONE-DON'T

MISS THE FUN!

ECOMMENDED ENGINES

842 C63 C5-3S



PROD. NO. 5034 (Formerly K8-4)

SKILL LEVEL-4

HI-FLYING SINGLE STAGER! SEE-THRU PAYLOAD CAPSULE!

Watch this square-tailed performer go! See-thru payload capsule lets you send live insects aloft. And ... the recovery is slow & safe by colored parachute. Plastic nose cone and body reducer plus colorful decals makes "HUNTER" EASY to build & FUN to fly!

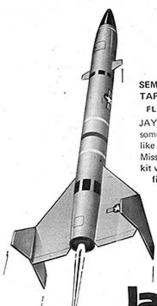
RECOMMENDED ENGINES

PROD. NO. 5043 (Formerly KB-13)

SKILL LEVEL-2

\$300 Shapping Mr. 10 or





SEMI-SCALE NAVAL MISSILE TARGET DRONE

FLIGHTS TO 1,400"!

JAYHAWK has realism PLUS! With some variations, it looks and flys like the U.S. Navy AQM - 37A Missile Target. Details galore in this kit with 3-color decal, pre-cut

fibre-fins, plastic nose cone and parachute. All you need

is glue & spray paint and your JAYHAWK is ready for the sky!

SPECIFICATION

PROD, NO. 5171 (Formerly KF-1)

SKILL LEVEL-2



CUSTOMIZED FIN DESIGN 8 TO CHOOSE FROM!

YOU DECIDE how your SKY DEVIL will look with one of 8 different tail fin designs! Then blast-off to altitudes as high as 1,800'! This foot - long performer comes with plastic nose cone, balsa fin sheet & colorful parachute and the price is right! How about these fin choices! Aero Bee-Hi; Raked Delta; Swept-Delta; Bastille; Swept-Subsonic; Cobra; Clipped-Delta & Elliptical. It's flyer's CHOICE with SKY DEVIL!

PROD. NO. 5040 (Formerly KB-10)

SKILL LEVEL-2

\$175

BIG-BIG BIRD

OVER TWO FEET LONG! Long, slim & fast, EXCALI-BUR is a STANDOUT in any rocket fleet line up! Two body diameters, plastic body reducer, plastic nose cone, precut fibre fins, reflective chrome trim, custom decal sheet, "Quick Change" engine lock and snappy parachute all go together extra fast for either the Beginner or Experienced rocketeer. JUST APPLY GLUE & SPRAY PAINT & get set for hiflying excitement with EXCALIBUR!

SPECIFICATIONS

PROD. NO. 5008 (Formerly KA-8)

SKILL LEVEL-1

\$350

IT GLIDES BACK TO EARTH LIFTING BODY PRINCIPLE!

Yes, it actually flies! X-24 is our version of tomorrow's manned reentry vehicle. The "BUG" climbs smoothly away from the launch pad trailing smoke and making a weird sound! Different! At apogee it quickly stabilizes in a long sweeping glide to a soft earth landing. Assembly is simple using PRE-PAINTED PAPER loaded with color & details. Get the "BUG" and start your own test program!

SPECIFICATIONS

EXTRA-HI FLYER NO SANDING OR SEALING!

See this slim one streak to almostout-of-sight altitudes! Then watch it return on a colorful drogue streamer, ready to go again! BANDITO uses unique wedge shaped speed fins (pre-cut fibre) designed to enhance aerodynamics, "Quick Change" engine lock, shiny chrome trim & a colorful

decal sheet. And it goes together fast without any sanding or sealing. FLY THE HOT ONE — the

SPECIFICATIONS

PROD. NO. 5007 (Formerly KA-7)

SKILL LEVEL-2

BANDITO!

\$250



AS3 844 864 C65

\$ 11 00 Shapping Mr. 12 or

YOUR OWN!

LAUNCH

Styled after the U.S. Naval missiles Tarter & Terrier, NOMAD has the look of the real thing. Slim and sleek. It really moves out with flights up to 1/6th mile! ! Recovery is by a colored parachute for launch after launch. AND WHAT DETAILS! Pre-cut fibre-fins & body vanes, chrome bands and a super-detailed 2-color decal sheet. Round out your rocket fleet with this fast flying performer-NOMAD! SHAPE OF THE FUTURE QUICK ASSEMBLY

AND NO PAINTING!

This is one of our most exotic Rockets. With a unique shape of its own, VULCAN flys beautifully without conventional rocket fins! Goes together quick with pre-colored parts & a minimum of fuss. Watch VULCAN streak skyward & return gracefully by its colorful parachute. Definitely NOT ANOTHER "ME TOO" ROCKET, VULCAN is really something special. SPECIFICATIONS

PROD. NO. 5010 (Formerly KA-10)

SKILL LEVEL-3

\$300 Styleny M. IT ex.

RECOMMENDED ENGINES 842 C63

PERFORMANCE PLUS! .FLIGHTS TO 1,800°

This kit is a must for the beginner who wants BIG SINGLE-STAGE PERFORMANCE in a small, fast rocket. Die cut fins & a plastic nose cone gets you to the launch pad-fast! Recovery is by colorful streamer for safe & happy landings - everytime! Every fleet needs this high-flying tiger -MICRON! SPECIFICATIONS

RECOMMENDED ENGINES 4 A85 846 866 C67

SPACE PROBE REALISM!

ALMOST TWO FEET TALL! IMPRESSIVE just sitting on the launch pad-FANTASTIC in flight! This super-stable "bird" has realistic lift-offs and flys straight & true. Kit has pre-cut balsa fins, large parachute, body reducer and an extra-large customizing decal sheet. Build it & fly it-again & again!

A83 8145 864 C65







ONE OF CENTURI'S LONGER ROCKETS!

This lean one is almost 21/2 feet long! And two stages of thrust puts EXCALIBUR 2 high above most other rockets with FLIGHT TO 1800'! Comes with molded plastic nose cone & body reducer, pass-port staging*, colorful decals, bright chrome trim & a large parachute. Get above the crowd with this one!

SPECIFICATIONS Length 29.5" Max Dump 0.91" Net Wt. 2.1 oz.

PROD. NO. 5175 (Formerly KF-5)

libur



FLIGHTS TO 2,200 FEET

TWO-STAGE PERFORMANCE AT ITS BEST!

One of our highest flying rockets. This long thin 2-stager slices upward to almost OUT-OF-SIGHT ALTITUDES! It recovers on dual streamers while the booster tumbles safely to earth. Pre-cut balsa fins & passport staging* gets this sleek performer in the airfast! Put real "GO" on your

*U.S. Pat. No. 3,721,193

1st Stage 2nd Stage A80 860 8140 C60 C5-0S %A64 A85 866 C67

as 1,000', the PAYLOADER is a great beginner's rocket that doubles the fun. Assembly is simple & fast with pre-cut balsa tail fins, plastic nose cone, custom decals and a clean plastic payload section. Both the rocket & capsule return safely to earth by sturdy parachute to FLY AGAIN & AGAIN. Fly with / the Centuri "Carrier

BEGINNER'S HI-FLYING TEST LAB!

This high-flying rocket has it's own

clear plastic capsule, so you can

launch insects to study the accelleration effects! Streaking as high

Rocket"PAYLOADER III

oader]]

SKILL LEVEL-2

SKILL LEVEL-3

\$ 350 200000

RECOMMENDED ENGINES %A62 A83 844 864 C65

\$275 Sheery M. 10 st.

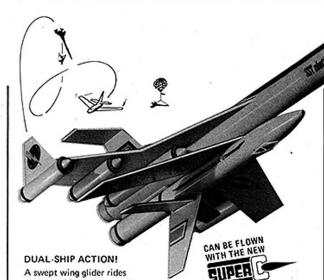
launch pad-STILETTO!

CAN BE FLOWN WITH THE NEW GUPEA

\$ 350 sayon ites



Flying Model Rockets.



the sleek SST rocket to high altitudes, detaches & circles back to earth while the SST "carrier" deploys a large chute & drifts down in a horizontial position. Here's exciting dual-ship action that flys again & again! This kit is packed with colorful decals, preformed hi-detailed plastic parts, pre-cut balsa fins

and wings - the works! Build it and fly it! PROD. NO. 5077 (Formerly KC-17)

SKILL LEVEL-5

\$6⁵⁰ SAMON SAMON

GLIDER

RECOMMENDED ENGINES

2 06-3 C5-3S

LOOK - NO FINS! FOR BOTH THE BEGINNER & EXPERIENCED ROCKETEER!

An easy to build rocket with a "DIFFERENT" look. You'll be happy with its stable vertical flights especially in windy conditions. And, you can put it together in an evening. No fins to sand; a plastic nose cone, custom decals & shiny chrome trim make it a cinch with just glue & spray paint. Surprise your buddies with this unusual rocket.

SPECIFICATIONS

RECOMMENDED ENGINES 83 844 C65

PROD. NO. 5011 (Formerly KA-11)

ove Tube

SKILL LEVEL-1

\$ 350 Sharing M. 1544



BEGINNER'S FUN! **DUAL CONFIGURATION!**

Here's a quick moving midget with lots of action! Launch your MOONRAKER and watch it separate into 2 sections at apogee! Both gyrotumble harmlessly to earth. You can also change the fin rake angles easily - it's two ships in one! Quick to assemble with plastic nose cone & durable precut fibre fins, MOONRAKER . is a must "FUN SHIP" for every beginner!

PROD. NO. 5041 (Formerly K8-11)

SKILL LEVEL-1

\$125

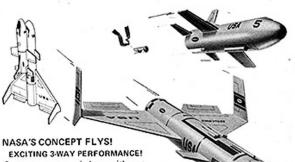
RECOMMENDED ENGINES XAG4 ABS



BEGINNERS CHOICE FLIGHTS TO 1,800 FEET!

Get a flying start in model rocketry with JAVELIN. It's easy to assemble with plastic nose cone, colorful decals & pre-cut balsa fins. You'll see your "BIRD" streak hundreds of feet skyward. Then you'll hear the "POP" as the parachute deploys and the return to earth begins. Model Rocketry is fun and JAVELIN is where the fun SPECIFICATIONS begins!

NAS4 AB5 846 866 8147 C67 PROD. NO. 5091 (Formerly KC-31)



Put on your own airshow with one of our most spectacular kits! Based on NASA'S proposed orbiting payload shuttle, this dual-model performer is a preview of the future. Both Booster & Shuttle thunder skyward together. At apogee the big rocket engine pod 2jects & returns to earth on a streamer. The separated Booster & Shuttle then begin individual glides to soft landings. Plastic cones, cockpits, pre-cut balsa wings & fins and a big highly detailed decal sheet makes SPACE SHUTTLE exciting!

PROD. NO. 5066

C63 ONLY

SKILL LEVEL-5

\$750 Shapping Int. 15 et.









from around the world

PROD. NO. 5331

SKILL LEVEL-3 SPECIFICATIONS

Length.... 14.5" Body Dia....908" Net Wt..... 1.23 oz.

RECOMMENDED ENGINES 17A6-2 A8-3 B4-6 B6-6 C6-7

SKILL LEVEL-3

SPECIFICATIONS

RECOMMENDED ENGINES 1/246-2 A8-3 B4-6 B6-6 C6-7

SPECIFICATIONS

SKILL LEVEL-3

\$350 Engines not included Shipping Wt. 13 oz.

Each Super Kit includes these deluxe features: Centuri Dual Chute Recovery . . . 2 big parachutes. · Patented Baffle/Chute Ejection system. * Long length and impressive size.
Big 6" x 12" Four-color decal. Richly illustrated instructions. Rocket-Rack display stand. Sturdy molded nose cones. Quick-change engine lock.
"Exploded View" plan. Pre-shaped fins. · Decal Guide. direction big kits!

The E.S.S. Raven is the proud flagship of the Earth Science Service (E.S.S.). The Service was founded in 1981 when leading scientists united in a world federation that cuts across national boundaries and politics. The E.S.S. Raven has pushed the frontiers of science ever outward with the recently announced Faster-Than-Light Drive and the rumor of time travel. The Raven is part of the E.S.S. Caone Research Project which tests the upper stratosphere, Based somewhere in the Sierra Mountains, the Baven can fly to the very limits of the atmosphere. The huge lower scoop gathers air samplet to be analyzed by the vast shipboard computer buried within the huge vessel.

E.S.S. RAVEN

Length 30.5" Fin Span 10.5" Net Wt. 5.3 oz. Diam. 1.6" ided Engines C6-3 C5-3S

*U.S. Pat. No. 3,719,145



Realistic Wing Pods



Quick-Change Engine Lock



S.S. RAVEN SKILL LEVEL 3 Shipping Wt. 1 lb., 8 ez. Solo Solo Se 18



Up until 1988 most satellite repair and service was conducted with NASA Space Shiuttles. This encouraged peaceful applications of space travel so that today Earth is surrounded by thousands of solar-energy collecting satellites. The Satellite Service Vehicle (S.S.V.) Scorpion maintains this complex network which conserves our divinding natural fuels. Its name comes from the stinger-shaped rudder that magnetically launches and retrieves satellites from Earth orbit. These slide down the rudder into storage Sots on the hull, and are later brought into the open hanger. Maintenance crews work in the vacuum of space to prevent almospheric crews work in the vacuum of space to prevent atmospheric damage to these satellites so vital in the 21st century.



S.S.V. SCORPION

Length 29.7" Fin Span 8.6" Net Wt. 5.7 oz. Diam. 2.0" Recommended Engines C6-3 C5-3S

*U.S. Pat. No. 3,719,145

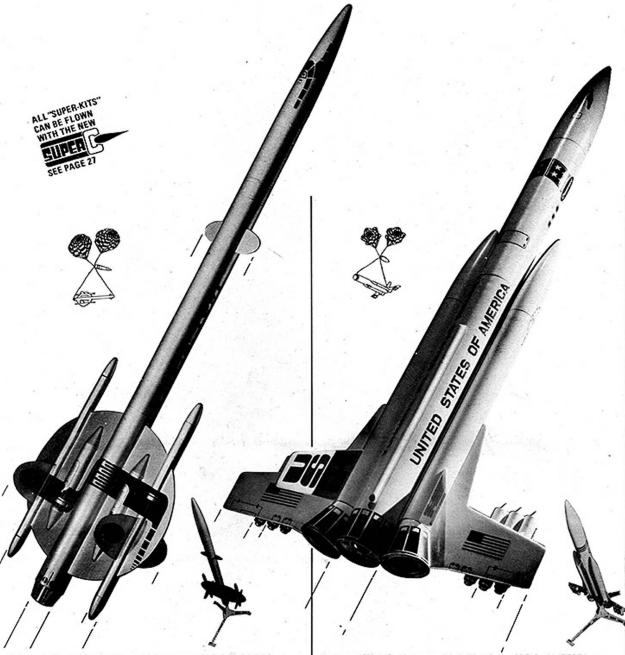




S.Y. SCOR

SKILL LEVEL 3

Shipping Wt. 1 lb., 8 oz. \$900 Engines not included



This year is 1980 and at last the existence of flying saucers is a proven fact. First sighted in the mysterious Bermuda Triangle, the U.F.O. Invader has been observed by countless eye witnesses. The Invader is a submarine as well as a deep-space ship... able to travel on the ocean surface, buoyed by its wing pods. It submerges to a hidden underses base where the aliens perhaps study Earth and its people. Little is known about the aliens, but we know this: we are not alone in the unnerse!

U.F.O. INVADER

Length 30" Fin Span 9.3" Net Wt. 4.7 oz. Diam. 1.34" Recomended Engines C6-3 C5-3S

*U.S. Pat. No. 3,719,145

In the year 1983 the President approved the building of the U.S.S. America Command Post. The keel was laid at the San Diego Space Shippards and the great bird first took to the sites in 1986. America now serves as Presidential aerial command post center and diplomatic

U.S.S. AMERICA

Length 25" Fin Span 12" Net Wt. 5.5 oz. Diam, 1,6" Recommended Engines C6-3 C5-3S

*U.S. Pat. No. 3,719,145







U.F.O. INVADER

SKILL LEVEL 3









U.S.S. AMERICA

SKILL LEVEL 3

Shipping Wt. 11b., 8 oz. \$900 Engines not included





SUPEP SCALE.

Super-Scale are loaded with far more exotic parts and detail than found in other kits. We recommended a heavy-duty launch stand and 3/16" diameter rod for the Saturns. See page 25 for "POWER-TOWER" and LR-188 rod.



MODEL OF ACTUAL NASA ROCKET

EASY TO BUILD
Here's an IMPRESSIVE
BIRD 1/10 the size of
NASA'S 75,000' altitude
Research Rocket. It's big,
almost two feet tall! Watch
it swoosh almost out of
sight to return softly with
its large chute. Goes together fast with a high-

PROD. NO. 5145 (Formerly KS-15)

detail molded nose cone.
Pre-cut balsa fins & special
baffle/ejection* & authentic
decal sheet. Beautiful in flight
or as a scale display. A "MUST"
for the scale rocketeer!

SPECIFICATIONS
Length 23.7*
Body Dia 164*
Net Wt. 23 or.

RECOMMENDED ENGINES 842 C65

*U.S. Par. No. 3,719,141

Nike Smoke

SKILL LEVEL-2

\$500 Stripping 127



MERCURY CAPSULE KIT Plantic tower & capsule; for replacement or "owndesigns". First #20 tube. (MR 36) \$1.50



NUMBER ONE IN SPACE!
PRE-FORMED PLASTIC PARTS!
Accurate in scale to the LAST
DETAIL, Centuri's Redstone
is the best flying replica of
of Alan Shepard's "FREEDOM
7". Nearly 2% feet long the
"Redstone" lifts-off beautifully
with tower separation at apogee
(500 feet!) — then the TWO
CHUTES "POP" to let tower &

PROD. NO. 5131 (Formerly KS-1)

booster gently back to earth. Hi-detail molded plastic tower, baffle-ejection,* balsa pre-cut fins plus and extra-large scale decal sheet make "REDSTONE" a reality on your launch pad!

1U.S. Par. No. 3,719,145

Mercury Redstone

SKILL LEVEL

\$800

1/36 SCALE



DUAL-ENGINE MOONSHOT FORERUNNER!

This is a true 1/100 flying scale model of the manned Apollo Mission warm-up! EVERY DETAIL IS CORRECT down to the original ship's markings! We designed it so the average modeler can create his own museum piece! This Big "Bird"

PROD. NO. 5140 (Formerly KS-10)

SKILL LEVEL-5

is OVER 2 FEET TALL, flys on a 2-engine cluster and recovers via two separate chutes. Many pre-molded plastic parts, Apollo Historical booklet, a Cluster Report and large decal sheet makes your "1B" a "STANDOUT" in flight or on display!

iurn 18

\$ 17.00 parate

2 - 864 2 - 665 2 - C5-3S

A 3-engine show stopper, this flying replica of the Man-Onthe Moon Mission, is scaled from actual NASA blueprints! Absolutely authentic at rest, or

THE ULTIMATE IN FLYING SCALE! in-flight "SATURN V"has a wealth of premolded parts including capsule, tower, display nozzles, body panels, clear plastic stabilizing fins, (easily remove them for display!). Comes with two-24" chutes, one 20" chute

SKILL LEVEL-5

APOLLO CAPSULE KIT

CAN BE FLOWN WITH THE NEW

\$28.00

and an authentic detail decal

off to a triple-chute return -

SATURN V commands the

scene!

sheet. From its thundering lift-

niLi

These neat little rockets are powered by Centuri Mini-Motors (not included; see page 27) which fit our small #5 tubes, Mini kits are generally thinner and lighter than standard rockets...so they really "Get-Up and Go!

Flying Model Rockets.



Shoony Wt. 12 or



PROD. NO. 5305

BEAUTIFUL FLIGHTS YOU CHOOSE THE RECOVERY SYSTEM!

NOVA gets up and away to 700'! Then according to your de-sires, returns to earth by a NOSE-EJECTED parachute or by a TAIL. EJECTED streamer. UNIQUE! Comes with pre-cut balsa tail fins, a parachute, drag streamer & a long balsa nose cone. For fun flying - try NOVA!

SPECIFICATIONS Length 12.4° 600y Down. 0.76° Net Weight 0.6 or.

RECOMMENDED MOTORS XA420 A440

PROD. NO. 5304

SKILL LEVEL 3 \$250

YOU GET 2 ROCKETS UNUSUAL CONSTRUCTIONS

Join the beginner's fun with these two ultra-light performers that go very, very high & fast. The return is a soft flutter to earth. quick and easy to get rocketry today!



PROD. NO



FEATHER-WEIGHT

Talk about go! This jewel moves fast so keep your eyes on it as it peaks out & begins a slow spin earthward. No chute, lots of chrome trim & a plastic nose cone. Fly it over & over.

Body Dum. 0.54" Net Weight 0.24s.

MOTORS NAESW ARGU

PROD. NO. 5302 (formerly KM-2)

SKILL LEVEL-1 \$125

CONTEST BOOST GLIDER! EXTREME TIME DURATION

Put one or two - (both are included) gliders onto the thrust pod. This is a true CONTEST KIT that can put your glider above the competition. Pod recovers by streamer. All balsa parts pre-cut. Includes large decal sheet and balsa cone. MINI-DACTYL - the choice of champions!

SPECIFICATIONS Leigh 15.0" Wing Span 4.5" Body Dian, 0.54" Glider Wt. 0.15 ea

RECOMMENDED MOTORS DOUBLE NAMED AMEN SINGLE NAMED NAMED AMEN

PROD. NO. 5306

SKILL LEVEL 4 \$350

TOPKICK! FLIGHTS TO 600

Look up fast when this one moves! And move it does with a REAR-EJECTED streamer. Now that's different! And it lands soft too! Plastic nose cone, pre-cut balsa fins, special "Trooper" decals and an alternate "long" version makes STAR TROOPER a contest winner!

SPECIFICATION'S Early Dum, 0.54" Net Weight 0.3 or

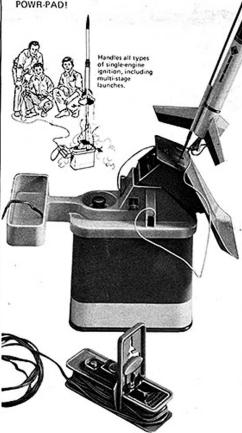
PROD. NO. 5303

Launch SYSTEMS.

Powr-Pad

WORLD'S MOST PRACTICAL MODEL ROCKET LAUNCH SYSTEM!

For all mini and standard rockets. POWR-PAD is the most compact & portable launcher - ever! Assemble & mount on top of any standard 6 volt lantern battery (not included) and you're ready to fire! You get everything, including TILTER for wind drift correction, large STEEL BLAST DEFLECTOR and a neat CARRYING HANDLE that trans ports the LAUNCH CONTROLLER. This controller is safety-engineered with 15' of wire, a safety-recessed firing button, check light & large "unloseable" safety key. For reliable launches everytime its POWR-PAD!



POWR PAD

PROD. NO. 5609 (Formerly LIA-99)

\$10<u>.</u>00

SKILL LEVEL-1

Shipping Wt. 1tb. 8oz.

Power Tower

THE LAUNCH PAD OF THE **FUTURE IS HERE TODAY!**

This highly detailed heavyduty plastic tripod launch stand is a real standout in the field! And, it's universal design fits all sizes of model rockets: mini-size thru clustered engines. Look at these features. COMPACT - remove the legs for storage or transport; TILT-ADJUST-MENT for flight angle direction & drift compensation; TWO-PIECE 1/8" DIAMETER LAUNCH ROD*: BLAST DEFLECTOR

- made of steel to protect fins from hot gases; METALLIC "SPEC-PLATES" for useful launch site data, POWER TOWER is where the action starts!

SKILL LEVEL-1 Shipping Wt. 2 lb.

class or with clustered engines. Order separately factory direct: Prod. No. LR-188 (\$1.25 + 504 postogel, or you can make your own from 3/16" x 36" plano wire.

Contro

THE HEAVY-DUTY ONE!

This general purpose launch system controller has 15' of firing line, micro-clips, 5 feet of jumper cable & extra-large battery clips. Use a car battery or any 6 or 12 volt heavy-duty battery. Launcher has a recessed firing button - continuity light & safety clip. Fly big cluster systems and super-scale with the versatile POWR-CONTROL. A perfect

mate for the Power Tower! POWR-PROD, NO. 5623 SKILL LEVEL:2 (Formerty EFC-3) Shipping Wr. 120z, CONTROL

Launch **Accessories**

AND REPLACEMENT PARTS

LAUNCH ROD

2-piece 1/8" steel. Use for your own "home-built" launch system or as a replacement part for POWR-PAD or POWER TOWER. Also fits older Servo Launcher & wooden triood launcher.

LR-125 Launch Rod Prod. No. 5800

\$1.00 each

DEFLECTOR

All-steel 4" x

6" designed to

protect fins &

tail assemblies

from hot rocket

gases. Use on all launch systems.

ID-65 Deflector

Prod. No. 5806 \$1.00 each

TILTER Permits adjust-ment of launch

rod angle to compensate for rocket wind drift. Fits the

T-99 Titter

wer Tower od. No. 5601 ormerly LIA-66) \$5.50

Rocket not included

xxwer tower

"We recommend the extra heavy duty 3/16" rod for any rocket with engine power greater than "C"



Prod. No. 5824 S1.50 MICRO-CLIPS

earlier Powr-Pad launch system Now standard in Powr-Pad and Eagle Power starter outfit,

Great for replacement or 'own design" launchers, spring-grip all igniters. 1 1/8" long. EMC-34 Clips Prod. No. 5812 2 for 756

HEAVY DUTY BATTERY CLIPS

These copper clips will con-nect to a car battery. Jaws open to 1-1/8". Colored ndles to identify polarity. EMC-46 Clips Prod. No. 5818 2 for \$2.00

page 25

De nes

Flying Model Rockets.

Safe and reliable.

Our safe & reliable solid-propellant engine is at the heart of every Centuri Flying Model. Rocket. These little power packages are safely ignited by remate electrical control. "one-shots" cannot be re-loaded or re used. We manufacture engines to precise tolerances on special automatic equipment. to transparent of the second of Second Emblem on Centuri rocket engines - it means they are regularly tested by NAR to meet exacting performance & safety standards.



What makes a rocket fly.

to peak altitudes (apogee) and after a delay time provide ejection thrust to push-out the rocket's recovery system.

Here's why a rocket engine moves. It's called the action-reaction principle.

Engine at rest (no ignition). Equal pressure



AT REST

Engine Burning (Ignition). Burning gases escape only through nozzle. Pressure im-balance causes engine to move away from the open ended nozzle. The gases speed up due to nozzle restriction. Rocket engines do not need to "Push against the air" . . . or real rockets couldn't air" . . . or real rockets couldn't fly in outer space!





Basic types.

THE END BURNER

Most engines are end burners, for flying





The "PORT BURNER" consumes propellant faster because the propollant "core" has a hole in it. This gives higher thrust and accel-eration. B-14's and C5's are port burners ideal for lifting payloads or "heavy" rockets.

PORTED



How a model | How to engine works.

Centuri rocket engines operate like many large atmospheric solid propellant rockets. The basic engine layout is shown below.



Keeps ejection charge from falling out.

EJECTION CHARGE Ignited by "Burn-Thru" of delay. Loose granu-lar charge "expels" the parachute, nosecone & recovery system.

DELAY CHARGE A slow-burning material; the delay charge sets the delay charge sets the time between thrust phase of flight till ejec-tion of the recovery system. This charge burns during the "coasting" phase of flight. of flight.

PROPELLANT A controlled mixture of solid propellant pressed into the casing under special conditions.

NOZZLE Made of a special clay, its shape produces a maximum amount of propellant thrust.

SURE-SHOT" IGNITER Starts propellant burning when heated by electrical faunch system.

*Booster engines do not contain delay or ejection charges.

FROM IGNITION TO **EJECTION IN 4 STEPS**

Battery-operated launch system heats igniter in engine nozzle — propellant starts burning almost instantly.



Propellant burns rapidly to maximum thrust level. Reaction principle causes lift-off & acceleration to burn-out.



Rocket coasts upward after propellant expended. Delay charge burns slowly till rocket reaches peak altitude.



At end of delay, the ejection charge is ignited and hot gases activate the recovery system. Normally the expended engine returns with the rocket.



select engines.

Always use the engines recommended for successful flights. See next column for tips on selecting engines for "own"—design rockets

ALL CENTURI ENGINES ARE CODED BY COLOR AND LETTER NUMBERS

COLOR — always refers to delay time. GREEN — A delay best suited to a GREEN — A dealy best suited to a single stage rocket.

PURPLE — A longer delay usually for multi-stage rockets or very high flying lightweight single stagers.

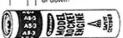
RED — Always a "BOOSTER" engine for staged rockets with zero (0) delay. NEVER USE A BOOSTER IN A SINGLE STAGE ROCKET! When the propellant burns out, the ejection charge immediately ignites the next stage. This "blows-off" the expended stage which mbles safely to earth

LETTER-NUMBERS - coded to show thrust & delay times.

A LETTER - This is the TOTAL THRUST code. Each higher letter class has double the power of the previous letter. (%A has up to 1.25 newton-seconds of total impluse: up to 1.25 newton-seconds of total impli A has 2.50; B has 5.00 and C has 10.00).

> 8 FIRST NUMBER-This is the AVER-AGE THRUST coded to indicate how the thrust is delivered. (8-4 how the thrust is delivered, 16-4 means long duration-low thrust and 8-6 means short duration-high thrust). The higher the number (Newton-Second3) - the higher the average thrust. The reason for this is that various rockets require different kinds of thrust levels & duration due to weight, frontal area, etc. We've already done the math to recommend engines for best all-around performance & that all-important safe return to

3 SECOND NUMBER -This is the delay code in seconds... The actual delay between burn-out & ejection. It's important to use the correct delay time as you want the chute to eject at the peak of flight, not on the way up

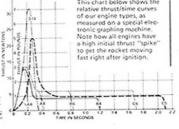


NOTE: Newtons (or pounds) are a measure of force in the Metric System.

cooto	Engine Type	Total Impulse in Newton-Seconds	
TOTAL IMPULSE CHART	× 4 8 0	0.626 to 1.25 1.26 to 2.50 2.51 to 5.00 5.01 to 10.00	0.15 to 0.28 0.29 to 0.56 0.57 to 1.12 1.13 to 2.24

This chart below shows the

THRUST/TIME CHART

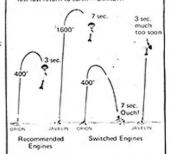


Rocket DEMORMANCE.

how high you want your rocket to go. That the reason we recommend different engines for each kit. Make your first test flight with the less powerful engine & then move up

ALWAYS USE THE RECOMMENDED ENGINE!

Big & heavy rockets or boost gliders usually need high thrust to lift them off and they do need high thrust to list them oil and they do not coast as high as smaller rockets. Look at the comparison below between the slim "Javetin" & the bukker "Orion". The recom-mended C6-7 engine flys the Javelin to over 1,600 feet! The Orion goes only to 400 the twith the C6-3 engine. What happens if we switch? The heavy Orion has too much delay - goes only to 400 feet & returns to earth with no chute ejection - CRASH! The lighter Javelin is coasting merrily on its way when "POP" the chute is ejected 4 seconds too soon - perhaps ripping it away ! fast-fast return to earth — SMASH!



CHOOSING ENGINES FOR "OWN DESIGNS"

What engines should you use in rockets you design? Take the guesswork out of it by flipping that this catalog until you find a Centuri kit of roughly similar size, diameter, weight, etc. Then just use the engines recommended! Generally you should use short delays for large rockets, long delays for small rockets, and medium delays for average sized "birds".

CHOOSE YOUR LAUNCH

Launching in too small an area may cause you to lose your rocket. You'll be surprised at how far they drift, even in a slight breeze. Here's some valuable tips sometimes learned the "hard-way":

recover by walking to the rocket with recover by waiking to the rocker out crossing roads, walls, rivers of fences. Don't faunch in your back yard . . . Unless you live on a farm!

2. Avoid launching in

winds over 15 mph Look at a flog, if it's standing out so you can see almost all of it - there's too much wind!

3. You can cut a 2" spill hole in your canopy to kee

the recovery more vertical.
4. Stay away from forested areas! Take a look down wind, that's where it will end up So keep tree-highlines, houses, streets. So keep treeningnines, nower, sixees of buildings awy from your rocket by finding that ideal area. Be sure to check with local authorities if there's a possibility of trespassing Keep it careful, courteous & you'll fly smart with Centuri rockets—Again & Again!

MODEL ROCKET ENGINES "BUILT FOR THE BIG ONES!"

Use the single stage "Super-C" engine (CS-3S) in these large Centuri kits.

- C5-3S * Eagle Transporter (5316)

 * E.S.S. Raven (5312)

 PROD. NO. 5592 * Mercury Redstone (5131)

 * Saturn 1-8 (5140)

 * S.S.V. Scorpion
- Orion (5068)
 U.F.O. Invader (5308)
 U.S.S. America (5310)
 Little Joe II (5138)
- Use the booster "Super-C" engine (C5-0S) in these staged Centuri kits. Excalibur 2 (5175)
 Long Tom (5064) • Stifetto (5031)

C5-OS • Arrow 300 (5037)
PROD. NO. 5590 • Black Wildow (5036) The new "SUPER-C" engine is designed to boost big rockets and multi-stagers higher and straighter! In the same size casing as a standard "C", it fits regular engine mounts; require no new equipment, "SUPER-C" yields spreater performance and reliability for recommen rockets. It does not replace the standard "C" engine but adds a new dimension to rocket flying. Packed 3 to a box; includes SURE-SHOT igniters. See catalog specifications for more information.

Centur:

HIGHER THRUST

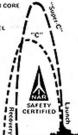
MORE LIFTING ABILITY

24% LONGER THRUST DURATION HERES WHAT MAKES THE DIFFERENCE:



NEW LABEL

The "Super-Q" gives a high initial thrust "spike"; lift off speed is greater and this in turn stabilizes the rocket more quickly. Stabilization early in flight is especially useful in contests, such as egy-dofting scale flights and plastic model; it conversion. A twintel flight kit conversion. A typical flight path with a Super-C engine is shown here in relation to a standard "C" series engine.



Specifications.

Rocket Engines listed on these charts are designed for use with Centuri kits and for your own rocket designs. Our standard engine line comes in 3pack boxes; the Mini-Motors are sold in 4-packs. Both types contain Centuri's SURE-SHOT Igniters complete with illustrated instructions for

rocket prepping and launching.





STANDARD



Standard engines.

Prod. Number	Type	PRICES 3 FOR	Total Impulse N-sec.	Average Thrust Newtons	Thrust Duration seconds	Delay Time ± 15% seconds	Weight	Recom. Max lift-off wt. (with engine ounces
Single-stag	e engines (Green Lab	rel)					
5550	%A6-2	\$1.50	1.25	6.23	.20	2	.53	2.5
5560	A8-3	\$1.60	2.50	7.81	.32	3	.57	4.5
5564	84-2	\$1.70	5.00	4.15	1.20	2	.70	5.0
5566	B4-4	\$1.70	5.00	4.15	1.20	4	.74	4.5
5572	86-4	\$1.70	5.00	6.00	.83	4	.78	5.5
5578	B14-5	\$1.90	5.00	14.23	.35	5	.69	6.5
5584	C6-3	\$1,90	10.00	5.86	1.70	3	.88	6.0
5586	C6-5	\$1.90	10.00	5.86	1.70	5	.91	5.0
Single-stag	e engines t	or lightwe	ight rocke	ts (Purple	Label)	'		
5552	%A6-4	\$1.50	1.25	6.23	.20	4	.54	1.5
5562	A8-5	\$1.60	2.50	7.81	.32	5	.62	2.5
5568	84-6	\$1.70	5.00	4.15	1.20	6	.78	2.5
5574	B6-6	\$1.70	5.00	6.00	.83	6	.71	3.5
5580	B14-7	\$1.90	5.00	14.23	.35	7	.73	4.0
5588	C6-7	\$1.90	10.00	5.86	1.70	7	.95	4.0
Booster en	gines (Red	Label)			,			
5558	A8-0	\$1.60	2.50	7.81	.32	0 1	.51	4.5
5570	86-0	\$1.70	5.00	6.00	.83	0	.58	5.5
	814-0	\$1.90	5.00	14.23	.35	0	.61	6.5
5576	014.0							

SUPER CENSINES. A detailed technical information report on the "Super-C" is available tree. Send a stamped, self-addressed envelope; ask for TIR-25.

Single-sta	ge engines	Green Lat	×1) .					
5592	C5-3\$	\$2.00	10.00	4.76	2.10	3	.90	8.0
Booster et	ngines (Red	(Label)						
5590	C5-0S	\$2.00	10.00	4.76	2.10	0	.82	8.0

Mini-motors."

Single-sta	ge Mini-Mo	tors (Green	Label)					
5500	%A4-2M	\$1.60	.63	3.6	.16	2	.22	1.5
5504	%A4-3M	\$1.70	1.25	3.6	.31	3	.25	2.0
5508	A4-2M	\$1.80	2.50	3.6	.63	2	.29	3.0
5510	A4-4M	\$1.80	2.50	3.6	.63	4	.30	2.5
Singlesta	ge Mini-Moi	tors for lig	htweight f	Rockets (P	urple Labe	1)		
5502	%A4-4M	\$1.60	.63	3.6	.16	4	.23	1.0
5506	%A4-5M	\$1.70	1.25	3.6	.31	5	.26	1.5
5512	A4-6M	\$1.80	2.50	3.6	.63	6	.31	2.0

SURE-SHOT"DOT" IGNITERS



This igniter system is probably the world's most efficient — complete & accurate ignition — exercytime! Perfect for standard engines, minimotors, super C's & clusters! Keep plenty on hand, Comes in kit form with complete instructions. Ready in seconds!

Reg. T.M. Centur U.S. Pat. No. 3,422,763

PROD. NO. 5836 (Formerly IG-12) Kit of 12 \$1.00

Estimated maximum altitude.

The chart below tells how high an expertly built standard-shape rocket can go depending on the tube diameter & the engine combination. Altitudes can vary according to rocket drag, length, weight, shape and other factors. Use this chart as a guide to tell you how large an area you should launch in. Blank spaces in the chart indicate that the specific engine/rocket diameter should generally not be used. Of course there are exceptions to every "rule" This chart is only a general guide.

Type					13 #16		
	17	*8	#10	#13	#16	*20	
%A6-2	250	200	100	ı	1	ı	
A8-3		375	275	150			
84-2				300	275	200	
84-4	950	750	550	400	375		
B6-4	850	650	450	325	200		
B14-5	700	500	400	200	100		
C6-3				600	500	450	
C6-5	, h	1100	850	700	575	450	
%A6-4 A8-5 B4-6	300 550 1100	250 425 900	125 350 750	250 500			
86-6	1000	800	650	450			
814-7	900	700	550				
C6-7	1800	1500	1200	800			
		. 1					
A8-0							
86-0		ed mod half-m					
814-0		igurati		1	g on en	gine	
C6-0							

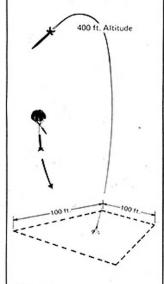
C5-3\$	ı	1	ı	1 200		1
C3-35	Į.	!	l	750	625	560
C5-0S	Stag	ed Fi	l ghts: :	l See Ab	ove	
Tuna	Lar	gest tu	be dia	meter	of mo	del.
Type	#5	#7	*8	#10	#13	#16
%A4-2M	225	175	125	1	1	ı
%A4-3M		300	200	150	100	
A4-2M			350	250	150	
%A4-2M %A4-3M A4-2M A4-4M	750	550	450	375	300	125
XA4-4M	300	225	175			ı
%A4-4M %A4-5M	500	400	325	225		
A4-6M	900	700	600	400		

MINI-MOTOR ADAPTER

Now you can fly your Standard-Engine rockets with Mini-Motors, too! Instructions include recommended Mini-Motors for dozens of PROD. NO. 6050 (Formerly EM-57) 706

Choosing a launch site.

dimensions of at least one-quarter the estimated peak altitude of your rocket. Pace off the area to make sure! And don't forget to allow for winddrift by locating up wind a ways.



Follow these common sense rules and those found in "Rocket Performance" for many exciting flights!

- 1. Launch in areas where you're sure there is no hazard to persons or property. This includes crops or grass that could burn if exposed to hot exhaust gases.
- 2. Do not fly near power or telephone lines, motor highways, hi-rise buildings or other obstacles such as radio towers or air fields. Watch out for "Rocket Eating" trees!
- 3. Keep attention during your launches to people, aircraft, cars, or equipment moving into the launch/recovery area.
- 4. Make a short count-down prior to each launch, to alert spectators.
- 5. Do not fire your rocket at an angle of more than 30 degrees from the vertical.
- 6. Keep a clear circle at least 20 feet in diameter around your launch pad.
- 7. It is best to avoid standing directly up or down wind during launch,
- 8. Do not hook up or disconnect the ignition leads until you have removed the safety key. Always keep the key with you so that faunching is totally under YOUR control!

DESIÉN Conturs

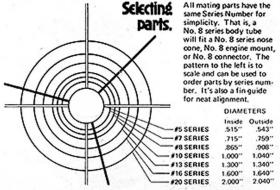
Flying Model Rockets.

Fun and Easy.

After launching & building several Centuri rocket kits, you'll no doubt have some ideas of your own on what YOUR "Bird" should ook like, Check our Centuri's DESIGN MANUAL, it's loaded with construction techniques, design tips & theories, rocket plans and flight data!

Building.

The best advice is "Plan-Ahead"! Get everything you need by sketching your rocket "idea" in advance & making a list of parts Keep the fin area toward the tail-too much forward fin area creates instability. The Design Manual explains this and many more technical points.



Custom parts assortm∈nts.

Each of these special Parts Assortments includes a complete set of all parts needed to build a fleet of rockets. The Design Manual included (see description at right) teaches basic principles for building your own designs from these parts.

DESIGNER SPECIAL

You can build up to 8 big rockets with this fantastic assortment of parts. Great for groups, clubs, or the rocketeer who really wants to "move up" at a bargain price. Check this list of parts. Over \$25.00 worth of parts for only \$15.00!

MISC:

3 - 12" Chutes 3 - 16" Chutes 2 - 20 " Chutes

NOSE CONES: (Balsa & Plastic) PARACHUTES:

- 3 No. 7
- 3 No. 8 Assorted balsa 2 - No. 10 & Plastic

BODY TUBES:

- 3 No. 7 Tubes





(iai \$15%

BEGINNER SPECIAL

Here's the ideal kit for the new designer. With it you can build 6 medium size rockets. And it's made easy in the Designer's Manual. For a "perfect start" in model rocket design, you can't miss with this value-packed assortment. A BIG-BIG \$15.00 value for only \$10.00.

- 6 Body Tubes (No. 7) 6 Nose Cones (Balta & Plastic) 4 Fin Material Sheets 1 Fin Pattern Sheet
- 12" Chutes 16" Chutes

- 16" Chutes
 Screw Eyes
 Sheet Tape Discs
 Roll Shroud Line
 Elastic Shock Cords
 Thrust Rings
 Launch Lugs
 Shock Cord Fasteners
 Rocket Designer's Manual



Rocket **Publications**

MANUALS, GUIDEBOOKS, TECHNICAL INFORMATION REPORTS

SW照HANDBOOK

Specially prepared Hand-book/Operating Manual is the heart of the "Power System" series. Includes principles of rocket power, rockets in history and the movies, info on faunchers, engines, construction and advanced projects. Nearly 200 illustrations.



24 Pages, Prod. No. 81527 \$1.00

Design Manual

By Grant Boyd

Totally revised edition; for building "own design" rockets. Loaded with tips on construction and design, and detailed info on high-altitude birds, payloaders, boost-glides..., and more! Includes over 200 illustrations.

32 Pages, Prod. No. 81899 \$1.00

Rocketeer's Guidebook

By Col. Larson & W. Matson

The good basic reference for The good basic reference for all rocketeers. Info from "A to Z". Also includes chapters on altitude measurement, com-petitive events and launch ranges. Rickly illustrated with charts & photos.

36 Pages, Prod. No. 81900 \$1.25

Educator's Guide

By Dr. Wayne Matson

A teacher's guide for rocketry in schools and classrooms. In-cludes tests for measuring kno ledge. Developed for Centuri one of the country's leading aerospace educators.

64 Pages, Prod. No.81916 \$2.00



TIR-30 STABILITY OF A MODEL ROCKET IN FLIGHT By Jim Barrowman

Complete explanation of aerdynamic stability in flight. Good theory background prepares the reader for properly eng-incered rocket design.

16 Pages, Prod. No. 81903 \$1.00



TIR-33 CALCULATING THE CENTER OF PRESSURE By Jim Barrowman

Easy-to-use graphs for balancing rockets for efficiency. A practical application of the concepts learned in TIR-30. Simplified equations and sample problems

36 Pages, Prod. No. 81904 \$1.00



Easy-to-use graphs for predicting model rocket altitudes, for any engine power of %A thru C. Includes charts for selecting best delay time.

40 Pages, Prod. No. 81906 \$1.00





Flying Model Rockets

The parts shown here are the most popular. Additional parts (too specialized for most hobby stores) are available factory-direct. All parts sold in kit-form, such as Engine Mounts, include complete assembly instructions.

Air frame.

This is the "tubing" section of your rocket. Use the fin guideshown in the "Design Your Own" section for correct sizing. Re-member the size-codes fit each other — A #5 body tube will fit a #5 connector, etc.

BODY TUBES Heat-welded.

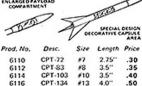
strong, smooth lightweight.

Prod. No.	Desc.	Size	Length	Price
6002	ST-518	#5	18"	.50
6004	ST-718	#7	18"	.60
6006	ST-818	#8	18"	.75
6008	ST-1018	#10	18"	.90
6010	ST-1318	#13	18"	1.00
6012	ST-1618	#16	18"	1.25
6014	ST-2018	#20	18"	1.75

CLEAR PLASTIC TUBES

ENLARGED PAYLOAD

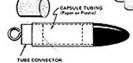
6116



4.0

CPT-134 **BALSA TUBE CONNECTORS**

Solid balsa plugs for connecting pay-load sections to body tubes when a solid wall is needed.



Prod. No.	Desc.	Size	Length	Price
6270	BTC-7	#7	1	.50
6272	BTC-8	#8	1"	.60
6274	BTC-10	#10	1%**	.70
6276	BTC-13	#13	1%"	.80
6278	BTC-16	#16	1%"	.90

HOLLOW TUBE COUPLERS

Great for multi-staging connections & cutting guides for body tubing. Joins equal diameter tubes. Extremely strong



		كنا	<u>ا</u>		
	STANDA	RO TUBING		T NO. HTC X	
P	rod. No.	Desc.	Size	Length	Price
	6420	HTC-5	#5	34**	.30
	6422	HTC-7A	87	1"	.30
	6426	·HTC-7COH	87	Staging Coupler	.40
	6428	HTC-8	8	1	.40
	6430	HTC-10	#10	1	.40
	6434	HTC-13	#13	1.5"	.50
	6438	HTC-16	#16	1.75"	.60

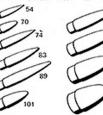
Nose cones.

- usus: nose cones are precision-molded in a wide variety of shapes and sizes. Most have bases with lugs for eyelets) for attaching shock cords. Plastic cones are reddy-to-use in bright colors. May be painted with



BALSA NOSE CONES

Prod. No.	Desc.	Size	Length	Price
6130	BC-54	#5	2.4"	.60
6134	BC-70	#7	1.6"	.60
6136	BC-74	#7	3.5"	.70
6140	BC-83	#8	3.2"	.90
6144	BC-89	#3	4.8"	1.50
6148	BC-101	#10	2.0"	.90
6150	BC-103	#10	3.9"	1.00
6156	BC-135	#13	3.9"	1.35
6160	BC-162	#16	3.4"	1.50
6164	BC-200	#20	2.5"	1.75



PLASTIC NOSE CONES

Prod. No.	Desc.	Size	Length	Price
6202	PNC-51	#5	1.0"	.40
6204	PNC-54	45	2.2"	.50
6210	PNC-70	#7	1.5"	.40
6214	PNC-76	#7	3.0"	.50
6220	PNC-89	#8	4.6"	.90
6226	PNC-102	#10	4.3"	1.30
6227	PNC-103	#10	4.1"	.90
6228	PNC-106	#10	4.5"	.90
6232	PNC-132	#13	2.7"	.85
6236	PNC-160	#16	2.5"	1.00
6240	PNC-167	#16	9.3"	1.30
6244	PNC-231	#20	32"	1.30



Reducers.

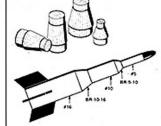
Reducers connect body tubes of different diameters. They can be solid (balsa) or hollow (plastic - paper). You would want a solid reducer just above your recovery system and a hollow reducer where ejection gases must pass through to activate the recovery system.

PLASTIC REDUCERS



Prod. No.	Desc.	Fits	Price
6386	PSR-78	7 to 8	.50
6388	PSR-813	8 to 13	.65
6390	PSR-1620	16 to 20	.85

BALSA REDUCERS



Prod. No.	Desc.	Fits	Price				
6352	8R-58	5 to 8	.60				
6354	BR-510	5 to 10	.60				
6358	BR-710	7 to 10	.60				
6360	8R-713	7 to 13	1.00				
6362	BR-810	8 to 10	.60				
6364	BR-816	8 to 16	1.20				
6366	BR-1013	10 to 13	1.00				
6368	BR-1016	10 to 16	1.10				
6370	8R-1316	13 to 16	1.10				

Rocket Rack.

MODEL ROCKET DISPLAY STAND

Another innovation from Centuri! The ROCKET-RACK (included in every SUPER KIT) is available sep-arately for use with almost ANY model rocket. Simple



Desc.

Rocket Rack

\$1.25

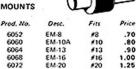
Prod. No.

6500

Miscellaneous.

These mounts hold and center the rocket engine in the "Airframe" body tube. They can be adopted to #8, 10, 13, 16 & 20 body tube sizes. You get everything you need including centering rings, engine mount tube, thrust ring & sleeve tube.

ENGINE



LAUNCH LUGS

Stender tube glued to side of the rocket. The launch rod passes thru to guide the rocket during

Prod. No.	Desc.	Price
5928	LL-3	6 for

THRUST RINGS

These featherweight fibre rings are 3/8" long. Used as forward engine stop when glued into any #7 series body tube.

Prod. No. Desc. Price 5966 TR-7 .75

CENTERING RINGS

These rings center the engine tube (47) in #8 & #10 body tubes.

tube (#7) in body tubes.	#8 8 #10	D	1
Prod. No.	Desc.	Fits	Price
5970	CR-8	#8	6 for .75
5974	CR-10	#10	6 for .7

ENGINE LOCKS

Includes mylar holding ring & steel lock strip. Keeps engine firmly in place in flight & during ejection thrust.

Prod. No. Desc. Price 5980 EL-1 3 for

DECALS

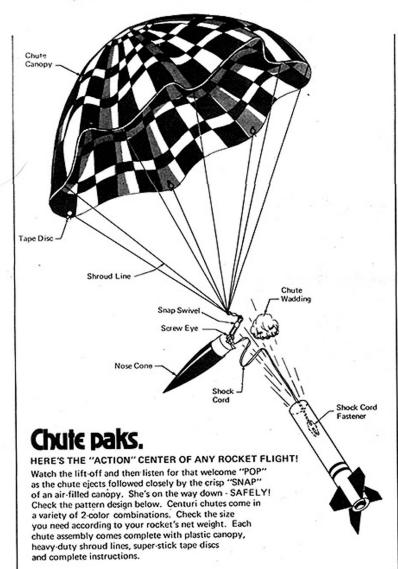
While nearly all Centuri rocket kits have their own decals, these below are ideal for taking your kit one step further. The sheets are large (approx. 4"x10") and made in two three and four rich colors.

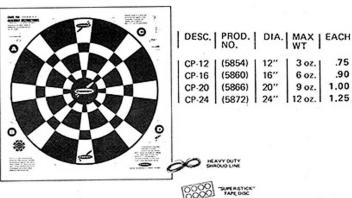
three a	nd four rich cold	ors.	==0474
Prod.	Desc.	Price	
36603	M-314 Centuri Emblems	.75	
36607	DC-3 Military Insignias	.90	AAAA
36608	DC-4 Missile Markings	.90	E Co
35630	DC-35 U.S.	.90	E

Flags

RECOVERY VICES.

Flying Model Rockets.





Eiection

For use in long large diameter "own designs". Centuri's baffle/ejection system is permanently installed to protect the chute from heat. A great idea! Reduces launch turnaround time too!

"Own-designs" require at least 4 inches of space between engine mount and baffle.

Desc. Prod. No. E8-13 (6090) Fits #13 EB-16 (6094) Fits #16 .80 EB-20 (6098) Fits #20 1.00

Shock cord fasteners.





Made of special foil-woven nylon, Centuri's shock cord fastener attaches permanently to any body tube without glue! It's simple, just pull the backing off the fastener, slip the shock cord thru & press into place for a heatresistant installation. Check before each launch for permanent bond!

SCF-1 Fasteners Prod. No. 5908 6 for .75

Plastic drag streamers.

For soft-recovery of rockets weighing up to one oz. A bright day glo orange, these streamers are over 1" wide & 36" long! They eject the same as a chute and are highly visible for those almost-out-ofsight flights! Includes tape discs plus instructions. Net weight is .09 oz.

RS-20 Streamers 3 for Prod. No. 5914 .75 Prod. No. 5914

Shock

This super strong elastic cord connects recovery chute or streamer to the rocket body. Use SC-18 cord with birds powered by %A thru "C" engines.

SC-18 Shock Cord Prod. No. 5894 3 for .75

Tap€ discs.



Attach streamer or parachute shroud lines permanently with these super-stick discs! 36 discs per sheet.

TD-35 Discs .50 Prod. No. 5890 Per Sheet

Chut∈ wadding.

TWO KINDS!

CREPE-TYPE:

Most flame-resistant. All purpose, easy to use; Just count number of sheets. Enough for 25 #7 rockets. SPW-19 Crepe Wadding .90 Prod. No. 5846

COTTON TYPE

Flame-resistant and soft!
Also recommended for
Rocket diameters above
2 inches, enough for
20 flights in #7 rockets.

PW-19 Cotton Wodding 1.25 Prod. No. 5842

Parachute DOWDER.

Keep that chute "POPPING" SMOOTHLY" with Centuri's special chute cant. Sprinkle

it on during folding and look for a small dust cloud at apogee. It really works! 2 oz.

shaker can

PDR-17 Chute Powder Prod. No. 5880 sh

Centuri Aerospace Team



Join us on the | C.A.T.NEW CENTURY Acrospace Team

10 GOOD REASONS FOR JOINING C.A.T.

The Centuri Aerospace Team is the growing world-wide special club for rocketeers who fly

word-water special cutof to focketees with the Centuri way. Join the NEW expanded C.A.T. and you'll receive all this for only \$1.50. • A special kit of the 7 exciting materials explained below. • Your own copy of the next new Centuri catalog. • Bulletin of special programs (catalog and bulletins are automatically mailed when published). • And best of all you get the chance to be right here in the Centuri catalog, as ex-

plained on this page.



YOUR \$1.50 MEMBERSHIP KIT INCLUDES:

C.A.T. DATA FORM

Probably the most important part of your C.A.T. kit! You complete this simple form about your model rocketry activities, and return it to us. This is how you become eligible to have your photo in a future issue of this catalog under "Meet the C.A.T.".

IRON ON SHIRT INSIGNIA

A large 6"x7" three-color Team Emblem for your T-shirt or jacket. Easily irons on and remains permanently, You'll be proud to identify with other Centuri Rocketeers.



MODEL ROCKET DESIGN MANUAL

Worth \$1.00 by itselff Large 8%"x11" book, contains 32 illustrated pages. Explains design tips, rocket stability, recovery systems, multistaging systems, construction techniques and plans, plus dozens of photos and over 100 diagrams.



AEROSPACE TEAM DECAL

Large impressive 3-color decal containing 16 Team insignias, Apply to car windows, tockets, field boxes, etc. Measures 3%"x9", Colors are red, white, and blue.



MEMBERSHIP CARD

Wallet size card indentifying you as a member of the "Team", Also has 14 point Model Rocket Safety Code imprinted on back of card,



WALL CERTIFICATE

A beautifully lithographed certificate with your name inscribed and ready for framing. Display it in your home or your club meeting room,



FIELD BOX STICKER

Apply this colorful I.D. sticker to your notebook, bicycle, car, brief case, field box, or even your rocket. Has place for name & address.

C.A.T. membership available only by mail, from Centuri.

Centuri, Dept. 202C, Box 1988, Phoenix, Arizona 85001

A.T. Membership Application Enclosed is \$1.50 for my Centuri Aerospace Team membership and kit of materials. I pledge

to follow the ModelRocketeer Safety Code.									218	0.31	Ore	-	_	_	_	_	_	_	_	_	_	_			
Name		Fill	ou	t car	efu	My:	Prin	t or	nly	one	ch	ora	cter	in	eac	h s	D)C	e. /	46	brei	riati	e if	nec	ces	130
	\square	\Box	Ι	\mathbf{I}	L			\Box	\Box	I	Τ	Τ	T	Ι	Ι	Τ	Ι	Τ	I	Ι	Ι	I	Τ	Τ	I
Address	_		_						_	_	-		_		_				_	-	_	_		-	_
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WELCOME TO THE NEW C.A.T.

WELCOME TO THE NEW C.A.T.

The Centuri Aerospace Team has been around many years and advertized in various Centuri publications. Now the C.A.T. has these new features: The CAT gets its own section right here in the Centuri catalog, new members are guaranteed to automatically receive the next new catalog, and best of all, CAT members now have a chance to see their names and photos in print! (Old Team Members can get a free Data Form by asking me and sending a stamped self-addressed envelope.) Each issue we select a few people for "Meet the C.A.T." When space allows, we include the best of whatever you send us; rocket drawings, snapshots, letters, new ideas, etc. All mail about the C.A.T. should be addressed to "C.A.T."

"CONE TEST" CONTEST

This new CAT contest is designed to see how well you know the Centuri model rocketry line described in this catalog. All you have to do to win is look through the catalog and find the two Centuris kits (besides the three new Tactical Missifest) that still use balsa now corner. There are only two. Then write down the names of the kits and send them in. The first twenty winners will receive the two kits as prizes; a value of \$6.00!

Both kits have the balsa nose cone mentioned in the description of the kit. Remember, the three Tactical Missiles (Israeli Gabriel, Italian Sea Killer and the Russian SAM-3) don't count. Send entry to: "CONE TEST" Contest, Centuri, P.O. Box 1988, Phoenix, AZ 85001.

Your entry must be received no later than August 31, 1978. The contest is only open to CAT members,

TEAM EMBLEM CONTEST WINNERS

We'd like to thank all those who responded to our CAT Emblem Design Contest an-nounced in the last Centuri Catalog. We



Centuri Catalog. We chose two first place winner; because both their designs were impressive. The first place winners were Lester Lim, of Winnipeg, Manifoth, Canada, and Joel Burdick, of Belmont, New York, Lester's design is at the top of the column at left, and Joel's is shown at the top of this article. There are 18 winners in all, who received prizes totaling over \$250.

IM PLACE — POWER SYSTEM OUTFITS: Letter Lim, Winnight, Manitoba, Canada Joel Burdick, Belmont, N.Y.

John Burgork, Bermont Jr. V.

John S. ACE - SAACE: 1599 OUTF115.
Manual Variages, Manual Fis.
Daniel Watson, Long Beach, Caint,
Gregory Moral, Jacobs, Caint,
Gregory Moral, Jacobs, Caint,
Gregory Moral, Jacobs, William

John B. ACE - EVEL MARCYE, OUTF115.
Constitution of the Control of the Control
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Con

Edward Hankemon, Corlona, N.Y.

From Exmin, Pyrmouth, Muth.

4th. BLACE — HONOIGN BLE CMENTION

4th. BLACE — HONOIGN BLE CMENTION

4th. BLACE — HONOIGN BLE CMENTION

from the Markemon, Francis, Canil.

Landa Cuberthon, Francis, Canil.

Adoptit Young, Britaghing, Catil.

Adoptit Young, Britaghing, Catil.

Gerrett Holling Jr., Livini, Cat.

Walter Wees, Hantlengton, N.Y.

Facing Clausian, 5th. Generates, Mo.

Statist Wees, Los Anderson, Catil.

James Department, C. Generates, Mo.

Statist Wees, Los Anderson, Catil.

James Department, C. Generates, Mo.

Statist Wood, Los Anderson, Catil.

James Department, C. Generates, Mo.

Statist Wood, Los Anderson, Catil.

James Department, C. Generates, Mo.

Statist Wood, Los Anderson, Catil.

James Department, Laylon, Edward,

Hoosel Walte, Northampoton, William,

Hoosel Walter, Northampoton, Mariebon,

Los Anderson, Westport, Conn.

William Catilland, Pariston, Northam,

Hoosel Walter, Mariebon,

Holliam Catilland, Barring, Northam,

Holliam Catilland, Barring, Northam,

Hoosel Walter, Markengo, William,

Mark Walter, Markengo, William,

Marken Walter, Markengo, William,

Marke

Meet the

You have a chance to appear here too, in a future issue, after you fill out and return the Data Form in your C.A.T. Membership Kit. Naturally we can't show every member, but we'll show you some interesting rocketeers!





CHARLES BABCOCK JOHN KUNNEY

Charles Babcock of Tempe, Arizona, flies mostly Centuri rockets and models of his own design like the one in this picture. Charles has many varied interests as well as model rocketry and wants to tell everyone, "May your rockets fly high and come back in one piece!"

At age 16, John Kunney of Reidsville, Georgia, is interested in rocketry clubs. His dream project is to design an alien science fection ship that would "hover and go at enormous speed."





LISA TALEN

STANLEY WOO

Proving that model rocketry is for girls too is 7 year old Lisa Talen of Austin, Texas. She's just started flying rockets but wants to tell all rocketeers that "Girls like rockets too!"

One CAT member who we hear a lot about is Stanley Woo, of Los Angeles, California. Stanley is active with the rocketry program in his school and has been interviewed on the local news program because of his interest in rockets. He also is into "STAR-TREK" and often appears dressed as an Enterprise crewmember.





GREGORY POTEAT JAN SCAZIGHINO

21 year old Glegory Poteat of Tacoma, Washington, combines his interest in woodworking with model rocketry. Greg has been involved in the hobby for about one year and loves it. In his words, really fore model rocketry as a hobby, Sometimes I can't sleep from getting so wrapped up in it."

Jan Scazighino of Pointeclaire, Quebec, Canada, represents our many CAT members from Canada. Jan's been flying rockets for about one year now and wants to be an engineer when he grows up.





Help send the United States team to the "Olympics" of model rocketry



SEE PAGE 3 TO LEARN HOW YOU CAN SUPPORT THE AMERICAN TEAM AT THE 1978 SPACE MODELING WORLD CHAMPIONSHIPS!



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PRINTED IN U.S.A.

CENTURI ENGINEERING CO. INC., PHOENIX, AZ 85001