

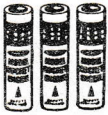


## HOW IT WORKS

Your "Fighter Fleet" model rocket is designed to fly in the same manner as most model rocket kits. The electrically ignited engine blasts the rocket-jet off the launch pad, guiding it into proper flight by the launch rod. The rocket continues coasting to peak altitude while the engine's delay-charge burns. Then the ejection charge ignites, pushing out the nose cone and parachute system. Your rocket-jet drifts to earth ready to be prepared for another flight.

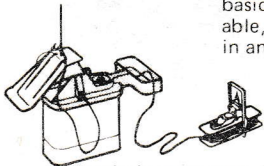
## WHAT IT TAKES TO FLY

You will need engines, igniters, an electrical launch system and parachute wadding to fly your rocket. These supplies are NOT included in individual rocket kits, but are available separately and ARE included in every Centuri Starter Set or Rocket Outfit.



We recommend using Centuri engines; each package includes the famous "Sure-Shot" igniters, acclaimed as the world's most reliable model rocket igniter.

The popular Centuri "Powr-Pad" is an ideal basic launch system; compact, highly portable, reliable, and offering features not found in any other launch system.



Always use standard remote-control electrical ignition and follow the engine recommendations. Be sure to comply with any laws that may apply in your area, for the good of Model Rocketry and your own enjoyment.

## RIGHT MATERIALS FOR THE JOB

Different model rocket kits are made out of a wide variety of materials, depending on the needs of each kit. The chart below explains why this particular kit is designed using certain materials.

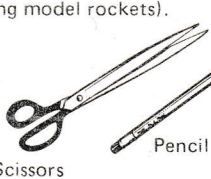
PART	REQUIREMENTS	MATERIAL
Fins	<ul style="list-style-type: none"> <li>No tools required</li> <li>Precision edges</li> </ul>	Pre-cut Fibreboard
Nose Cone	<ul style="list-style-type: none"> <li>No tools required</li> <li>Durability</li> </ul>	Molded Styrene

## TOOLS YOU WILL NEED

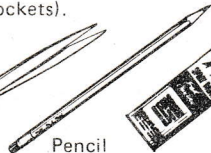
In addition to the parts supplied you will need the following tools to assemble and finish this kit (DO NOT use model airplane glue for building model rockets).



White glue, or "Wilhold" type glue, or Centuri Superbond (for gluing all fibre parts).



Scissors



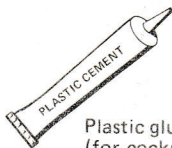
Pencil



Spray Paint



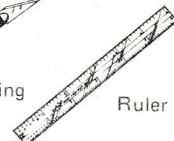
Masking Tape



Plastic glue (for cockpit and main cone).



Modeling Knife



Ruler

## BEFORE YOU START

In case you are new to model rocketry, here are some general tips to get you off to a good start.

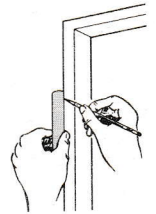
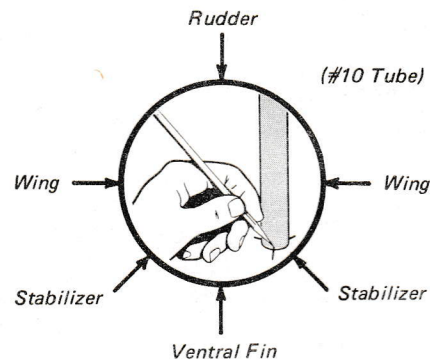
- Choose a practical assembly area: well lighted, big enough to work in, and out of the way of relatives or pets who might accidentally mess up your work.
- Cover your worktable with plywood or heavy cardboard to protect the table from glue, paint, cuts, etc.
- Remove the entire contents of your kit package carefully to avoid losing or damaging small parts. Lay them out neatly and identify each by referring to the "exploded view" drawing on this instruction.
- NOTE: Sometimes certain parts are packed INSIDE of other parts, such as tape discs inside parachutes, decals or couplers inside body tubes, etc.

# ASSEMBLY INSTRUCTIONS

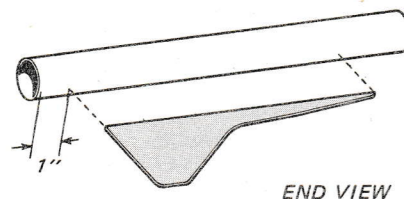
## BEFORE YOU START:

- Place the "Exploded View" plan sheet where you can refer to it while following these assembly instructions. Look it over to get familiar with all the parts.
- You MUST follow these instructions for satisfactory flights. The shape and placement of the model's parts has been carefully engineered for safe flights. DO NOT try to change the design, "customize" it, or leave off any parts!
- Locate the different flat parts in the pre-cut fibreboard sheet. Carefully push them out as needed to avoid bending them. Use a modeling knife, if necessary, to free any partially cut parts.

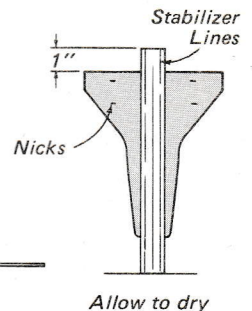
- Stand the main body tube on the fin guide to mark fin locations. Find a convenient channel or groove, such as a door jamb, partially open drawer, or molding. Extend the marks the full length of the tube.



- Note how wings are glued with nicks on same side as the body tube's stabilizer lines. All gluing steps require white glue, unless stated otherwise. Apply a bead of glue to one wing's foot edge and press onto the body tube along a wing line. Remove, allow it to become tacky. Add fresh glue to fin, and reposition. Repeat with the other wing. Allow assembly to dry, standing upright.

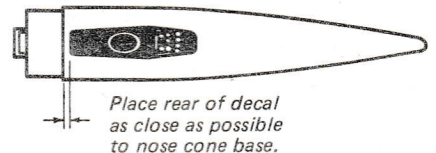
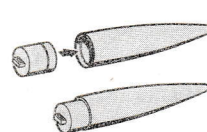


END VIEW



Allow to dry

- Assemble the main nose cone by snapping its insert into the cone until you hear and feel the parts locking in place (NOTE: plastic glue will provide an even stronger joint.) Cut the "cockpit interior" decal from the decal sheet and apply it onto the nose cone exactly as shown. (General decal instructions are printed on the back of decal sheet).



Place rear of decal as close as possible to nose cone base.

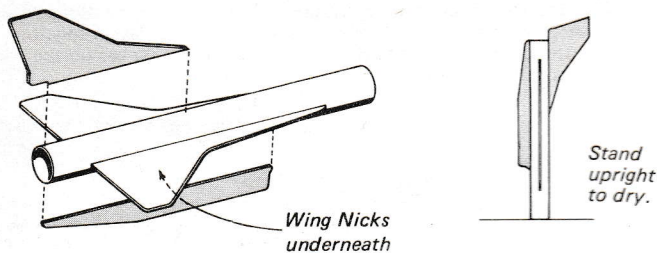
- Use PLASTIC glue to attach the cockpit to the nose cone. Center it neatly around the decal, and position as shown.



NOTE: Mark on cockpit for positioning.

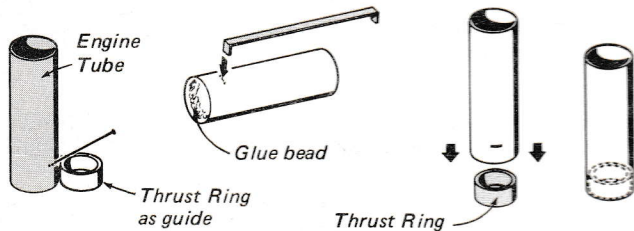


- 5** Glue the rudder and ventral fin onto the main body tube, along their drawn lines. **NOTE:** position the assembly so the nicks on wing surfaces are on the underside.

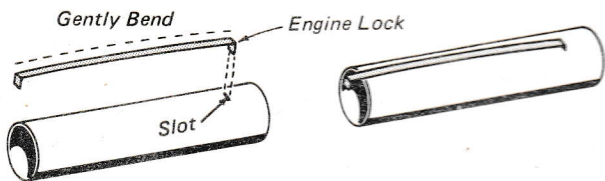


- 6** Make an engine-lock slit in the engine tube by poking holes with a pin or modeling knife. Push engine lock into tube to finish the slit, then remove the lock.

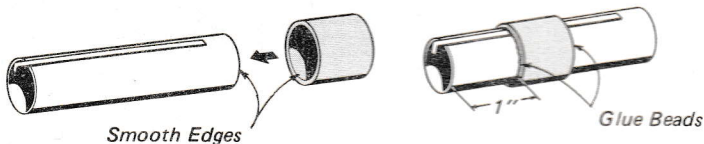
Run glue bead around inside of the slit end of the tube. Insert thrust ring by pushing tube down over it.



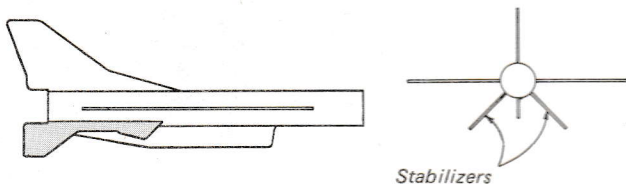
- 7** Bend the engine lock gently into a slightly curved shape. Now insert one end of the lock into the engine tube slot. This assembly is called an engine mount.



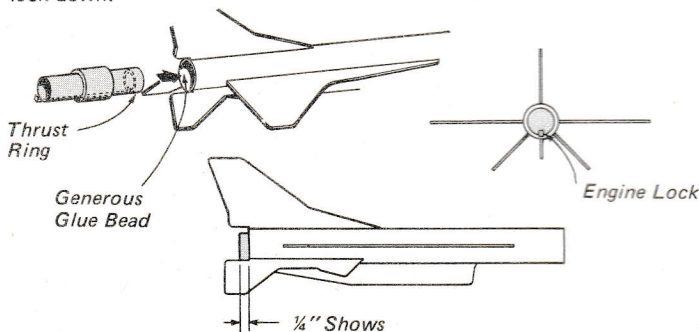
- 8** Slide the centering ring over the engine tube as shown. **NOTE:** Because these parts are precision fit, smooth any rough edges before joining. Apply glue beads (front and back) as shown.



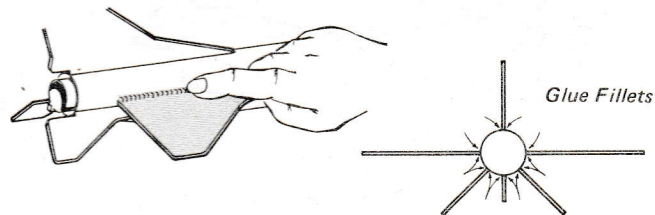
- 9** Glue the stabilizers in place along their drawn lines. Position as shown, and align with the center of tube. Allow to dry a little before further handling.



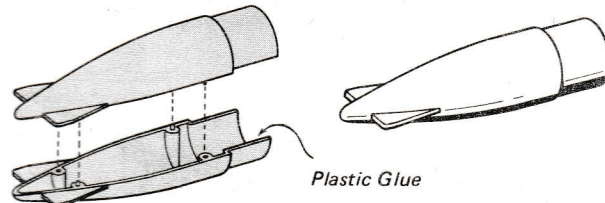
- 10** Test fit the engine mount as shown, before gluing. Glue the engine mount in place by running a generous glue bead around the inside rear of the body tube. Push the mount into place quickly before glue sets. Position mount so only about 1/4" shows, with the engine lock down.



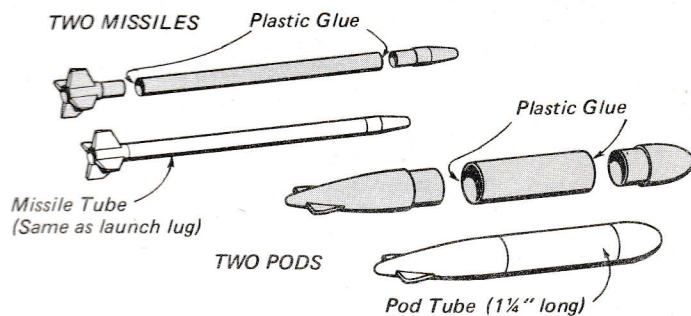
- 11** This is a very important step: Run a fine bead of glue along a fin joint, and smooth into neat, even fillets with your finger. Repeat for every fin joint.



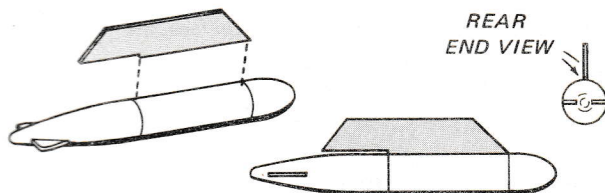
- 12** Form the pod tail cones by joining the halves with plastic glue. Align the halves so their pins and holes match. **NOTE:** Use a knife to cut the clear plastic parts from their runners, instead of breaking them off.



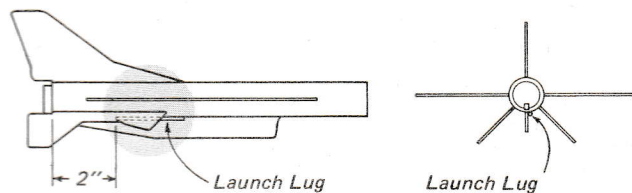
- 13** Assemble each missile and pod, one at a time, by putting a tiny amount of plastic glue into the tube and socketting the plastic part in place.



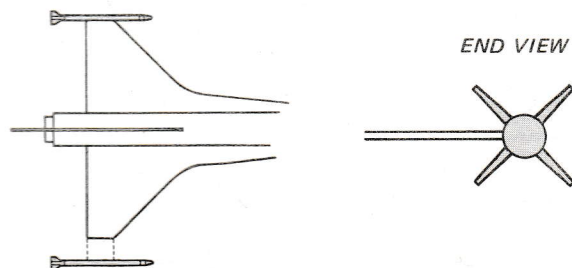
- 14** Glue the pod supports onto the pod tubes. Align as shown and allow to dry.



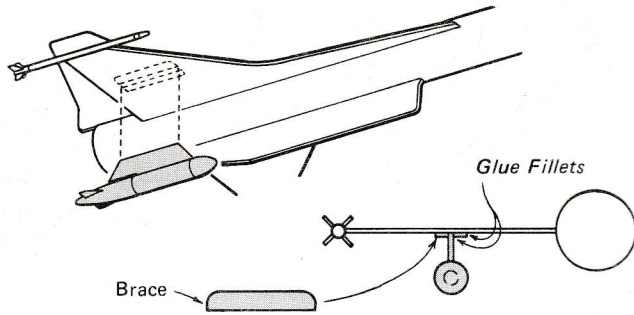
- 15** Glue the launch lug in place against one side of the ventral fin where it joins the body tube.



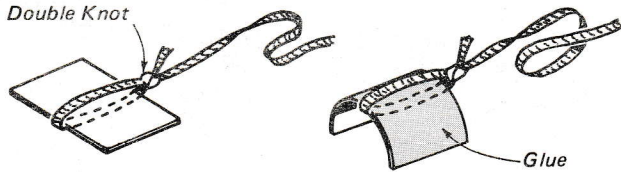
- 16** Glue the missiles into place on each wing tip.



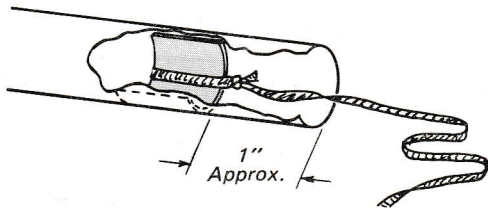
- 17** Glue the pod assemblies in place on the underside of wings, lining up with the wing's nicks. Glue their braces in place and run small glue fillets around all edges.



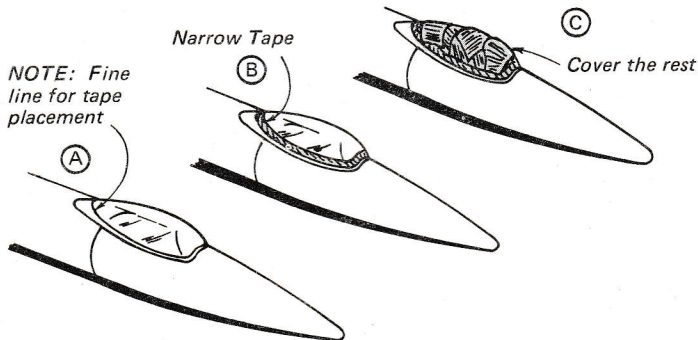
- 18** Tie one end of the shock cord around the heavy paper shock cord fastener ( $\frac{1}{2}$ " x 1"). Bend it neatly into a half-circle and apply glue to the entire outside surface.



- 19** Insert the assembly into the main body tube. Make sure it's at least 1" into the tube, to allow room for the nose cone to be inserted later. Rub the fastener down firmly with eraser end of pencil and hold until dry. Tuck cord inside and socket the nose cone in place (chute rigging will be completed later).



- 20** Cover the cockpit with masking tape to protect it while you spray paint the model. Make a border of narrow tape, then cover the rest.



- 21** When painting plastic parts, never use dope or lacquer! Use enamel only! Dope or lacquer will melt the plastic.

For best paint results, spray first with enamel primer to seal the fibre-board edges. Or rub a thin film of glue on or use filler coat and a brush. You may then want to smooth the edges with very fine sandpaper.

**RECOMMENDED COLOR:** White  
**MAY SUBSTITUTE:** Silver or Yellow

Spray painting your finished model with a fast-drying enamel will produce the best results . . . IF IT IS DONE PROPERLY!! Most important is the number of coats of paint. DO NOT try to paint your model with one heavy coat! Instead, give it a couple of quick, light coats first and then a finish coat. Let each dry before applying the next.

**Optional Step:** You may wish to paint the pods and missiles a contrasting color. Wait until the other paint is dry, and use a brush.

- 22** Applying decals is the next to last assembly step. Be sure paint is thoroughly dry . . . overnight is best. Read the general instructions. Round up your tools: Scissors, rag or paper towel, bowl of water.

Identify the different parts of decal. Notice how each design is covered with a clear shiny shape which holds the design together. Cut the decals apart and apply according to the photos on the package and in this instruction.

Place the "gunports" underneath and in front of the bird emblem:

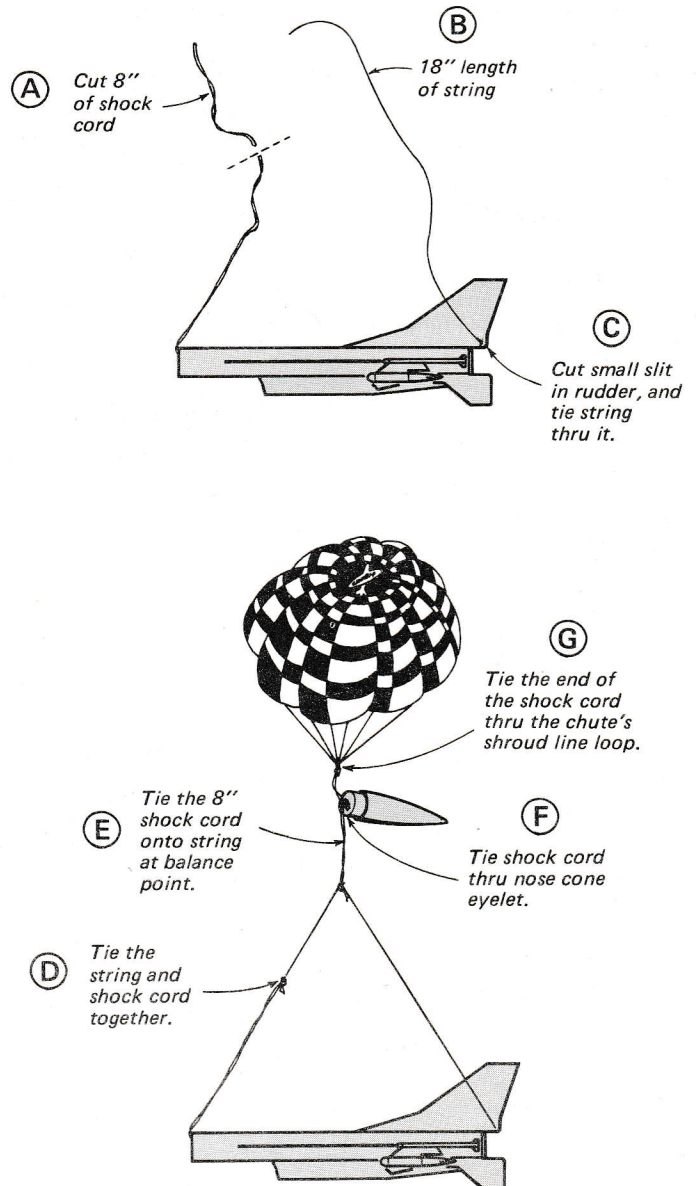


Place the hatches and "caution" statement as shown.

The three black decal strips are for decorating the cockpit.

- 23** Assemble the parachute kit enclosed, following the instructions printed right on the chute material. Save the left over shroud line for next step.

Rig the recovery system to make the model hang horizontally. FOLLOW THE LETTERED STEPS.



# FLYING INSTRUCTIONS

## ENGINES

Igniters and complete engine installation instructions are included in "Engine Operating Instructions" which accompany all Centuri Engines.

Your Fighter can be launched with the following engines.

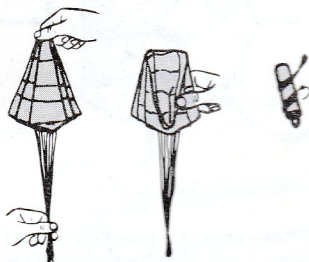
ENGINE	APPROXIMATE ALTITUDE	PURPOSE
A8-3	100 feet	LOW ALTITUDE - for first test flights and small launch areas.
B4-4 B6-4	200 - 250 feet	MEDIUM ALTITUDES - for general flying and medium size launch areas.
C6-5	400 - 600 feet	HIGH ALTITUDES - for extremely high flights and large launch areas.

## FLIGHT PREPPING

- Inspect entire recovery system for good condition before each flight. If the recovery system is tangled from the last flight, cut it apart to untangle it.

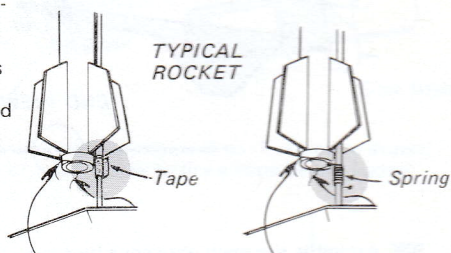
Insert flameproof chute wadding to protect your parachute from being melted by the engine's ejection charge. We recommend using 3 sheets of Centuri crepe wadding (#5846/SPW-19).

- Fold parachutes as shown and tuck neatly into rocket . . . trying to avoid tangles. Chutes should be packed just before flight to avoid them possibly sticking together.



- Tuck in shock cord and insert nose cone. The cone should fit snugly, yet be loose enough to eject.
- Install igniter into engine, following instructions enclosed with engines.
- Insert engine into its mount, securing with engine lock.

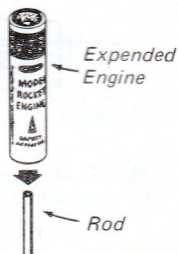
- Mount the rocket on launcher and prepare for ignition. The rocket must be raised slightly off the launcher's deflector to avoid a short-circuit which might prevent ignition. If your launcher has a "positioning spring" use it as shown. Otherwise just wrap a little tape around the launch rod to support the rocket and the launch lug.



- If your launcher has a rod-tilting feature, use it only for launching in breezes . . . normally model rockets are launched straight up. For reliable, impressive flights, never tilt the rod more than 15 degrees when flying your Fighter Kit . . . do not tilt the rod to its maximum angle.



Avoid eye injury by capping the exposed tip of the launch rod when not actually launching. Follow the instructions and the Safety Code, and have many happy hours with model Rocketry.



Centuri

FIGHTER FLEET™

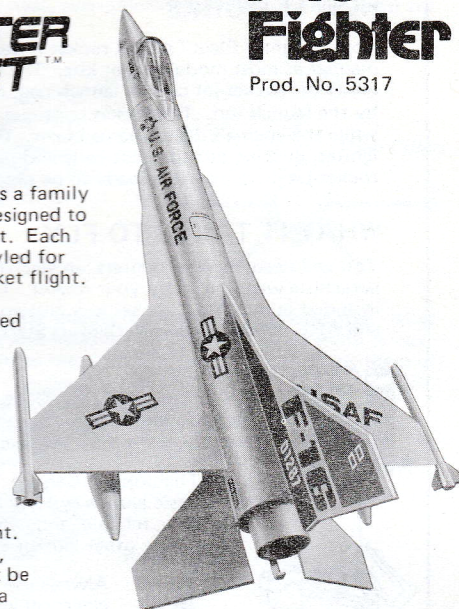
F-16  
Fighter

Prod. No. 5317

The "FIGHTER FLEET" is a family of unique model rockets designed to look like famous jet aircraft. Each jet has been carefully re-styled for safe and stable vertical rocket flight.

A real jet airplane is intended basically for horizontal flight. Its wings have aerodynamic lift ability, and a pilot sits inside it to make all the corrections and adjustments for a safe flight.

A Centuri model rocket is designed for vertical flight. there is no pilot to guide it, and its "wings" (fins) must be placed far back to provide a satisfactory flight. This kit is not a scale model jet: It is a flying model rocket that looks like a jet.



## MODEL ROCKETEER'S SAFETY CODE

### CONSTRUCTION

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

### ENGINES

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

### RECOVERY

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

### WEIGHT LIMITS

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

### STABILITY

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

### LAUNCHING SYSTEM

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

### LAUNCH SAFETY

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

### LAUNCH AREA

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

### BLAST DEFLECTOR

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

### LAUNCH ROD

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

### POWER LINES

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

### LAUNCH TARGETS AND ANGLE

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

### PRE-LAUNCH TEST

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

### FLYING CONDITIONS

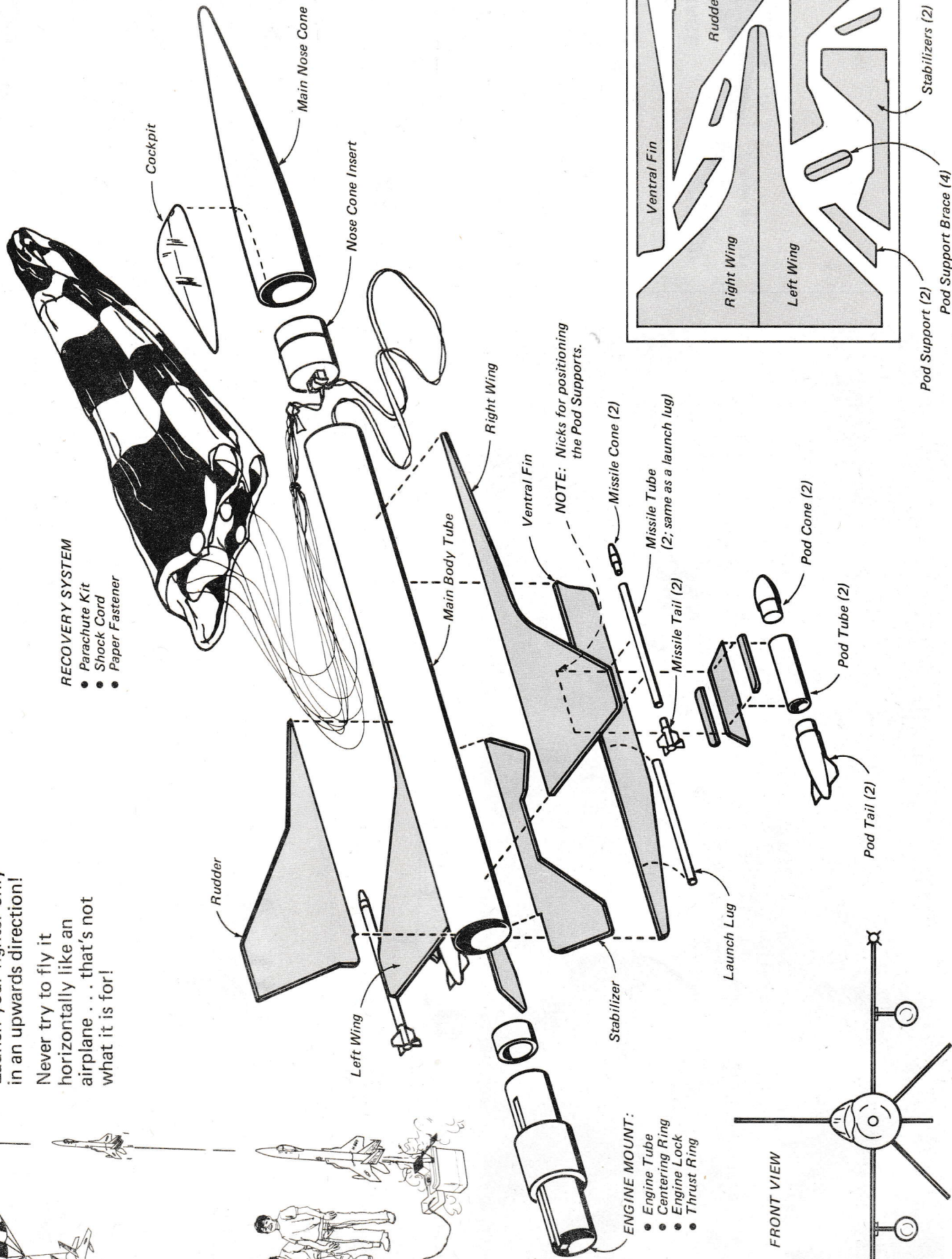
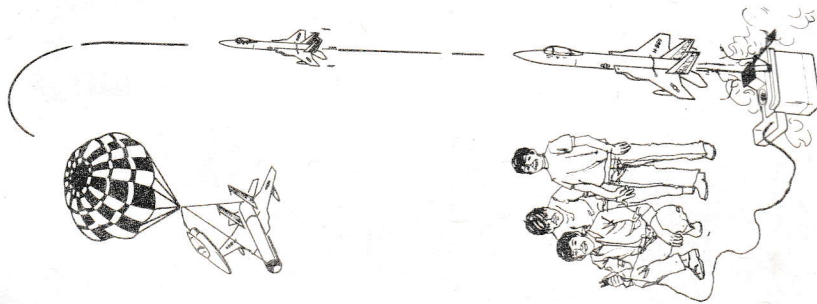
I will not launch my model rocket in high winds, near buildings, power lines, tall trees, low flying aircraft or under any conditions which might be dangerous to people or property.

# Centuri F-16 Fighter Exploded View

**REMEMBER:**  
Launch your fighter only in an upwards direction!  
Never try to fly it horizontally like an airplane . . . that's not what it is for!

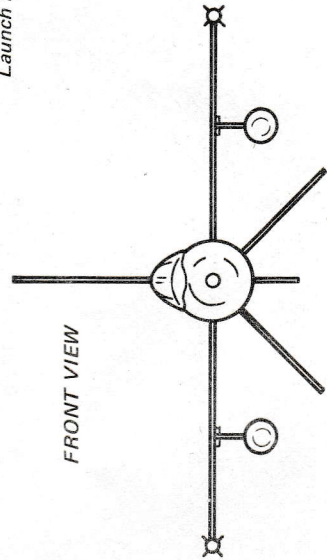
**RECOVERY SYSTEM**

- Parachute Kit
- Shock Cord
- Paper Fastener



**ENGINE MOUNT:**

- Engine Tube
- Centering Ring
- Engine Lock
- Thrust Ring

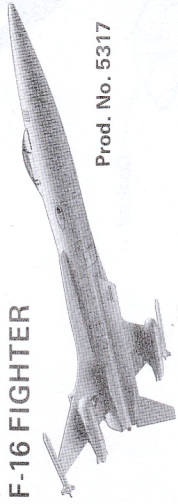


FRONT VIEW

COLLECT THE WHOLE SERIES:

# FIGHTER FLEET™

F-16 FIGHTER



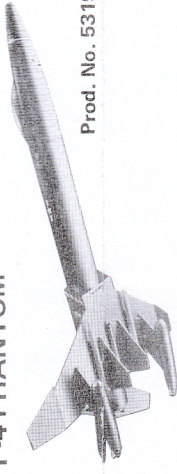
Prod. No. 5317

F-15 EAGLE



Prod. No. 5318

F-4 PHANTOM



Prod. No. 5319

F-104 STARFIGHTER



Prod. No. 5320

ISRAELI 5J MIRAGE



Prod. No. 5321

# Century Data Sheet

## F-16 Fighter

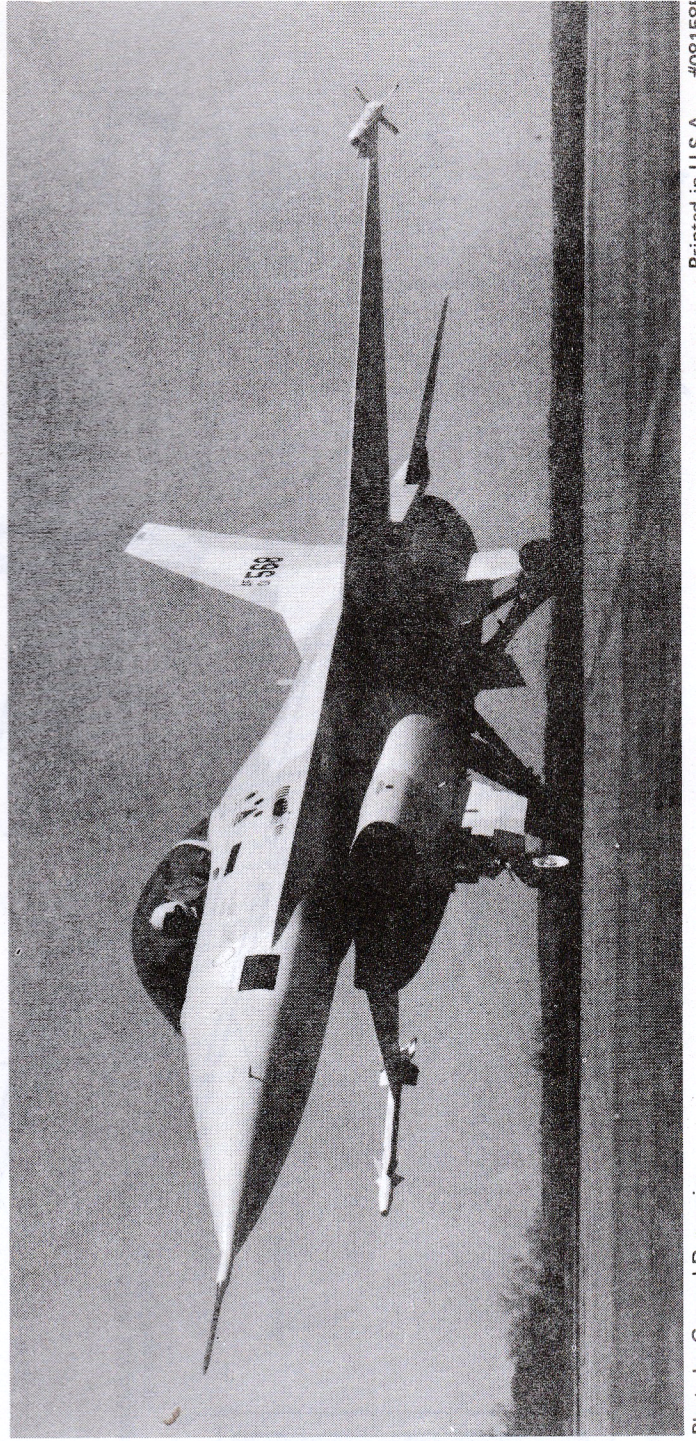
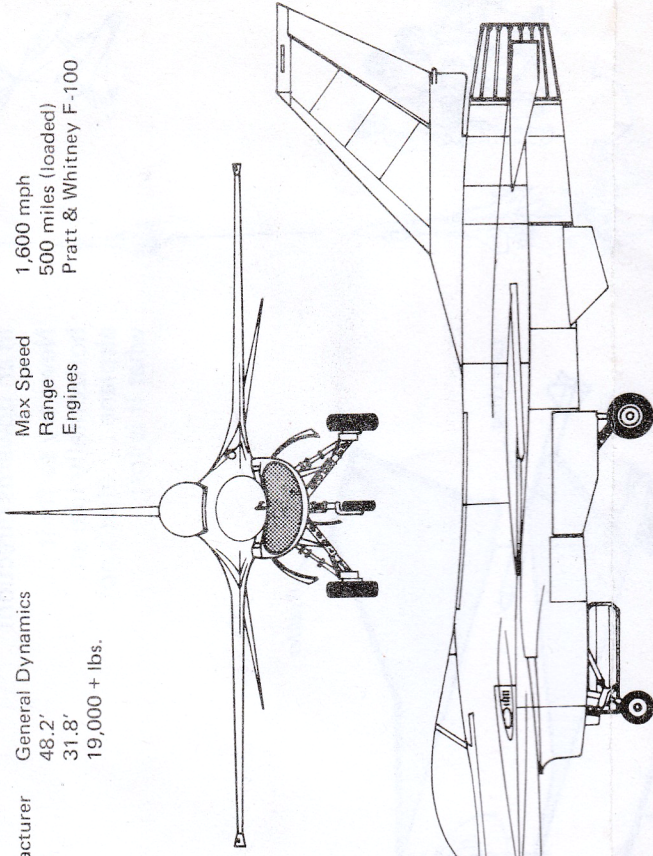
Over 650 of these planes are expected to enter the United States Air Force inventory, as the F-16 becomes the basic general-purpose fighter of the 1980's. NATO and certain European countries are also buying it. The F-16 has been especially designed for economy of purchase and ease of repair . . . the same idea as with a compact car! It's surprisingly low weight gives it great weight carrying capacity and efficient fuel usage. It's small size and very sleek styling make it the "sports car" jet of the future.

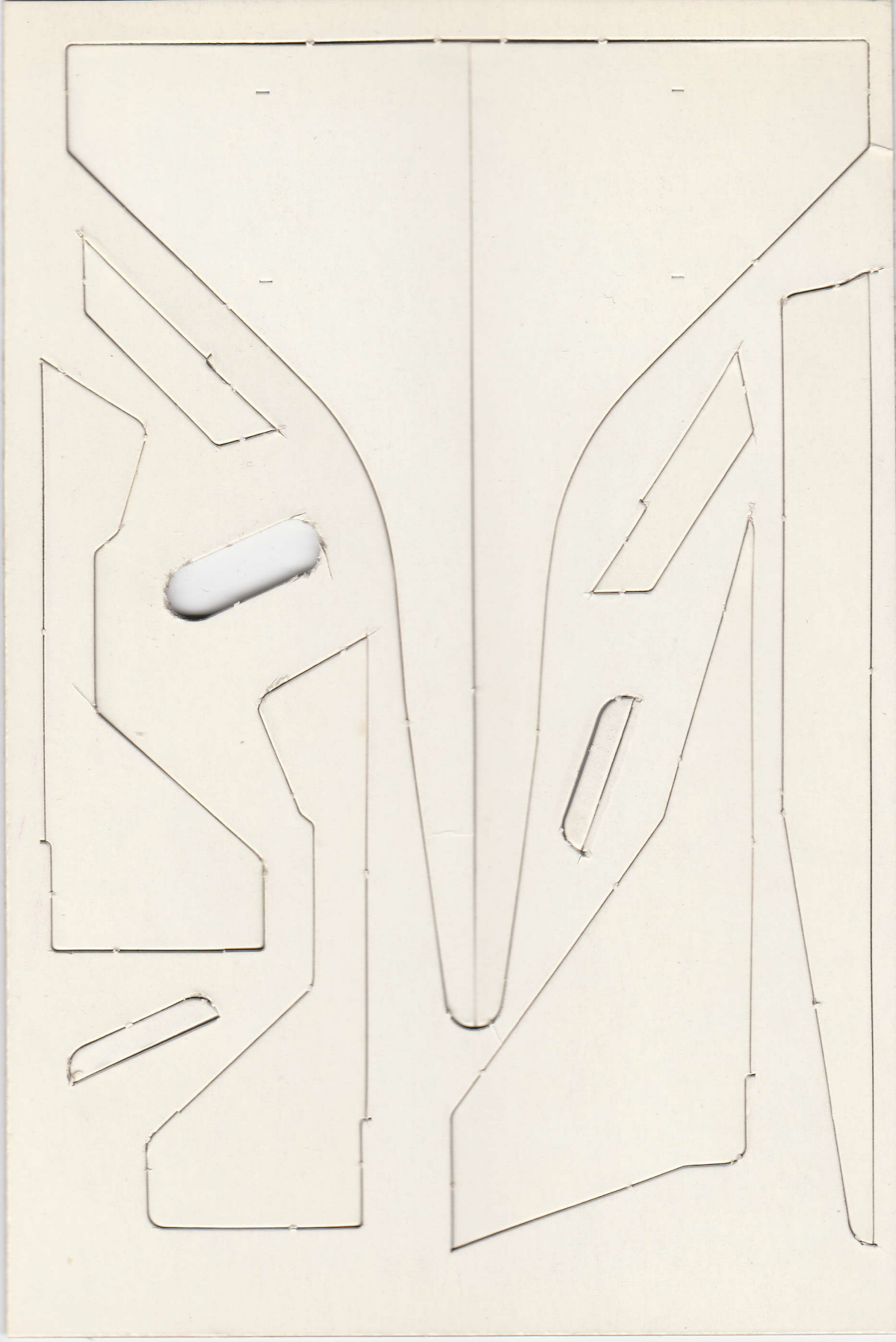
Manufacturer  
Length 48.2'  
Span 31.8'  
Weight 19,000 + lbs.

General Dynamics

Max Speed  
Range  
Engines

1,600 mph  
500 miles (loaded)  
Pratt & Whitney F-100









Decal No. 036832  
 RELEASE PRESSURE  
 BEFORE DISASSEMBLY  
 CAUTION

Decal No. 036832  
 RELEASE PRESSURE  
 BEFORE DISASSEMBLY  
 CAUTION

**INSTRUCTIONS**

1. CLEAN SURFACE FREE OF OIL OR GREASE
  2. DIP DECAL IN WATER, APPROX. 10 SEC.
  3. HAVE SURFACE VERY WET FOR EASY SLIDING INTO POSITION.
  4. SLIDE DECAL FROM PAPER TO PROPER LOCATION.
  5. WITH SQUEEGE OR ROLLER REMOVE ALL AIR BUBBLES.
  6. WASH DECAL TO REMOVE EXCESS ADHESIVE.
- PROPERLY APPLIED YOUR DECAL WILL GIVE LONG LASTING SERVICE.

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1. CLEAN SURFACE FREE OF OIL OR GREASE.
  2. DIP DECAL IN WATER, APPROX. 10 SEC.
  3. HAVE SURFACE VERY WET FOR EASY SLIDING INTO POSITION.
  4. SLIDE DECAL FROM PAPER TO PROPER LOCATION.
  5. WITH SQUEEGE OR ROLLER REMOVE ALL AIR BUBBLES.
  6. WASH DECAL TO REMOVE EXCESS ADHESIVE.
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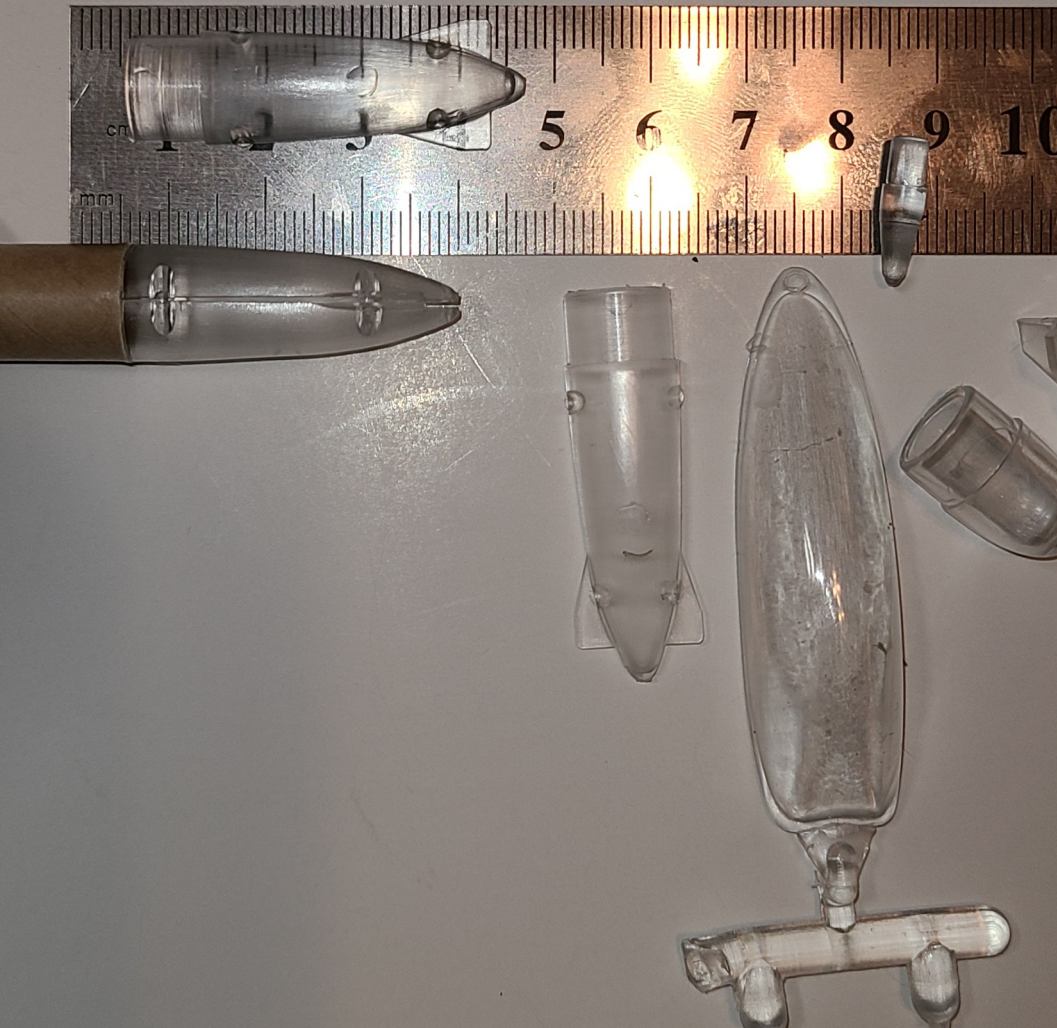
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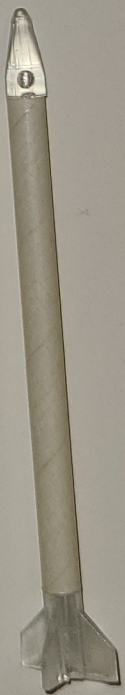
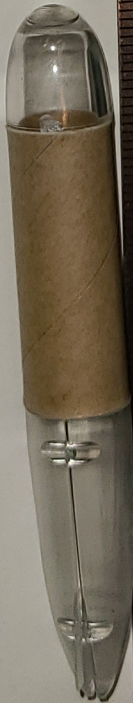
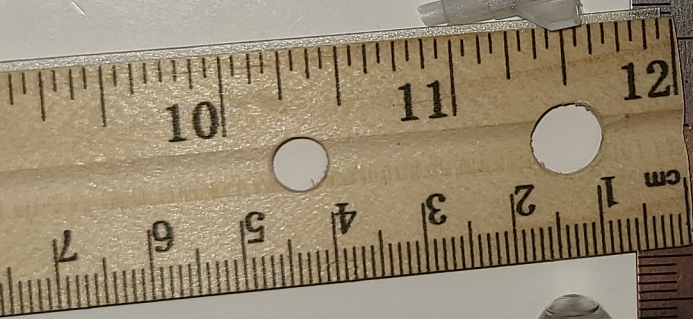
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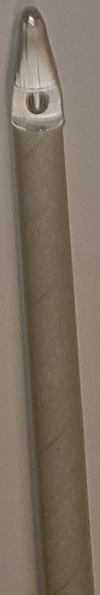
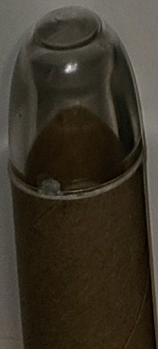
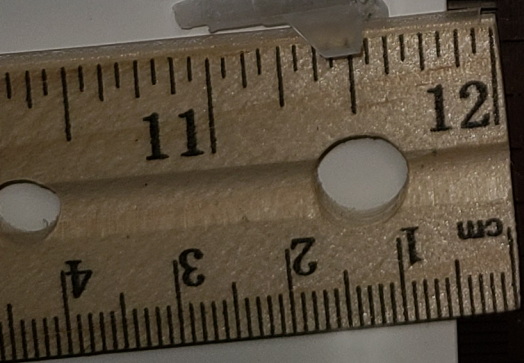
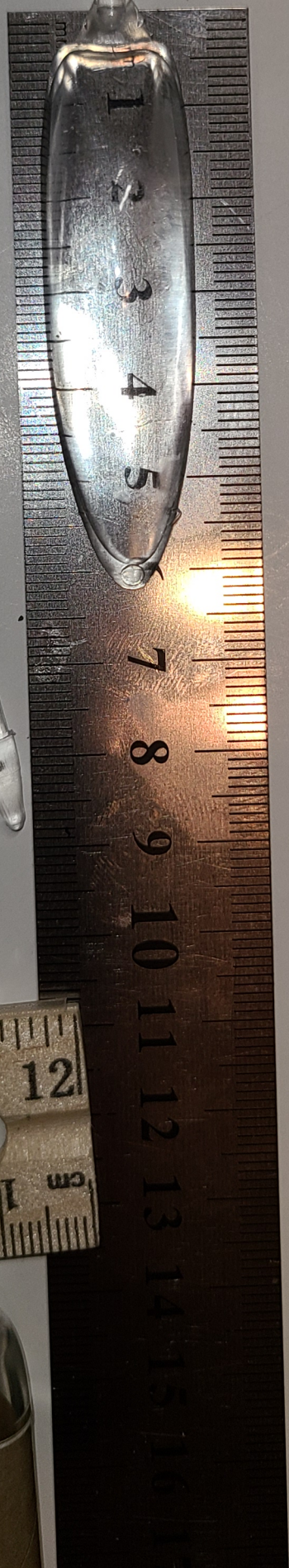
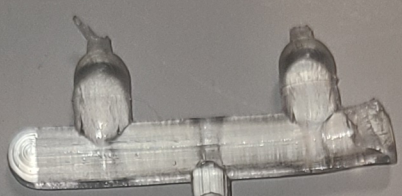
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#### Cloner Notes:

This kit is based on a Centuri tube ST-10 which is 1" OD. The closest equivalent Estes part is the BT-50 which is 0.976 OD.

The PNC-103 equivalent is the Estes PNC-50YR which is also 4.1" long. This is a very common cone used on many Estes kits.

The launch lugs are also common Estes parts.

The engine mount is standard Estes mount for BT-50. BT-20J, Engine hook, Engine block, and the 1" Centering ring. The 2 AR-2050 ring setup could also be used.

Recovery system is a standard parachute kit. I believe Centuri included a 12" canopy but I cannot verify the specs online. None of the descriptions list the size.

The missiles are made from Launch Lugs with plastic nose & tail parts. The nose is blunt and the tail has 4 small "sidewinder" type fins.

The Fuel Pods are made from BT-5 tube with plastic nose & tail parts. Estes parts #70305(used in kit #0801 Mosquito) and #72610(used in kit #3031 Star Trooper) could be used with the addition of 2 small fins.

The cockpit can be replicated from a cutout of the bottom of a 2 liter soda bottle. It'll be close but not exact.

#### Parts List:

Nose Cone PNC-103 4.1" Exposed.

Nose Cone Insert 0.5" Shoulder

Body Tube ST-10 9-3/8" Long

Die-Cut Parts sheet 0.05" thick fiber card See Scan

Launch Lug #5928 2-1/4" long

Cockpit Clear Plastic, See detail pics

Decal Red, White, Blue, Yellow, Black Waterslide See Scan

Engine Tube ST-7 2-3/4" long

Centering Ring 1" long for ST-7 to ST-10

Thrust Ring #5966 for ST-7

Engine Lock #5980 for 18mm motor

Shock Cord 1/8" wide 18" long rubber

Parachute

Shroud Lines

Tape Discs

Shock Cord Mount

2 x Missile Tube #5928 2-1/4" long

2 x Missile Cone Clear Plastic, See detail pics

2 x Missile Tail Clear Plastic, See detail pics

2 x Pod Tube ST-5 1-1/4" long

2 x Pod Cone Clear Plastic, See detail pics

2 x Pod Tail Clear Plastic, See detail pics

**A ROCKET-JET THAT FLIES!**  
**FROM THE CENTURI FIGHTER FLEET™**

**MODIFIED SCALE F-16 DESIGNED FOR STANDARD VERTICAL ROCKET FLIGHT.**

- Parachute Recovery
- Clear Plastic Cockpit
- 2 Simulated "Missiles"
- 2 "Long-Range Fuel Tanks"
- "Big 2-Color Decal"
- All Fibre Parts Pre-Cut
- Data Sheet on the Real F-16

**F-16 MODEL KIT**  
 (INCLUDES THE REAL F-16)  
**MODELE REDUIT**  
 (REPRÉSENTE LE VRAI F-16)

**RECOMMENDED ENGINE:**  
 A8-2, E-4, E-6, E-8, E-9

**SPECIFICATIONS:**  
 Body Span: 9.0"  
 Span: 7.0"  
 Tail Wh: 2.0"

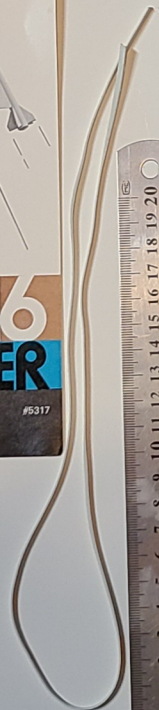
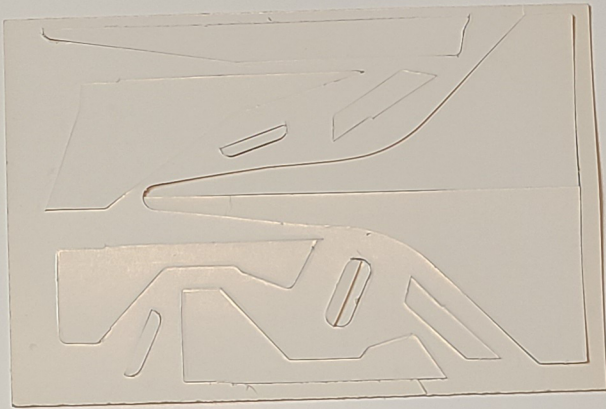
**FLYING MODEL ROCKET KIT**  
 ENGINES NOT INCLUDED

**ASSEMBLED LENGTH 15.0"**

**F-16 FIGHTER**

RECOMMENDED FOR AGES 10 TO ADULT #5317

Made in U.S.A. Centuri Engineering Company, Inc., Phoenix, AZ 85001



**Centuri FIGHTER FLEET™**

**F-16 Fighter**  
 Prod. No. 5317

The "FIGHTER FLEET" is a family of unique model rockets designed to look like famous jet aircraft. Each jet has been carefully re-engineered for safe and stable vertical rocket flight.

A real jet airplane is intended exclusively for horizontal flight. It's wings have aerodynamic lift ability, and a pilot sits inside it to make all the necessary adjustments for a safe flight.

A Centuri model rocket is designed for vertical flight. There is no pilot to guide it, and its wings "fold" must be placed far back to provide a satisfactory flight. This kit is not a scale model jet. It is a flying model rocket that looks like a jet.

Over 650 of these planes are available to enter the United States. [www.centuri.com](http://www.centuri.com)

**MODEL ROCKETEER'S SAFETY CODE**

**CONSTRUCTION**  
 My model rocket will be made of only lightweight materials with an engine, fuel, and a nose cone. I will not use any other materials.

**ENGINES**  
 I will use only the engine that was used in the model rocket program. I will not use any other engine.

**RECOVERY**  
 I will attach a recovery system to my model rocket that will return the rocket to the ground as fast as they can be found.

**WEIGHT LIMITS**  
 My model rocket will not weigh more than 100 grams (3.5 oz) and will not exceed 100 cm (39 in) in length.

**STABILITY**  
 I will check the stability of my model rocket before the first flight except when launching from a launch system.

**LAUNCHING SYSTEM**  
 The system I use to launch my rocket will be completely controlled and always will be used in a safe manner.

**LAUNCH SAFETY**  
 I will not launch my model rocket near people, buildings, or other structures.

**LAUNCH AREA**  
 I will launch my model rocket in a launch area that is clear of people, buildings, and other structures.

**LAUNCH RIG**  
 I will use a launch rig that is designed for the model rocket I am launching.

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

**LAUNCH TARGETS AND ANGLE**  
 I will not launch my model rocket at people, buildings, or other structures.

**PRE-LAUNCH TEST**  
 I will check the stability of my model rocket before the first flight.

**FLYING CONDITIONS**  
 I will not launch my model rocket in high winds, low visibility, or other dangerous conditions.

Centuri Engineering Co., Inc., Phoenix, AZ 85001 #081583

COLLECT THE WHOLE SERIES

**F-16 Fighter**

**Data Sheet**

Manufacturer: Centuri Engineering  
 Model No.: 5317  
 Scale: 1:1000, 1:500

Part # 5317





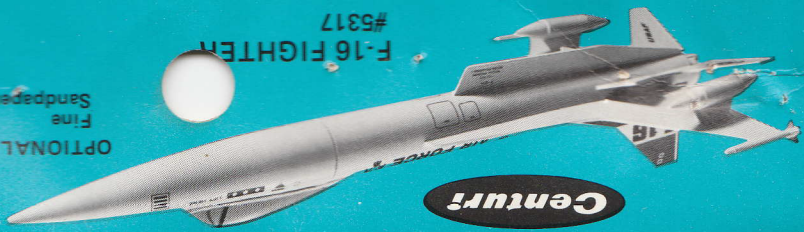
Advanced Intermediate Beginner  
 5 4 3 2 1  
 SKILL LEVEL

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**TOOLS YOU WILL NEED:**  
 Spray Enamel  
 Ruler  
 Model Knife  
 Plastic Glue  
 White Glue  
 Pencil  
 Sandpaper  
 Fine

**OPTIONAL:**  
 Sandpaper  
 Fine

F-16 FIGHTER #5317



**Centuri**

081584

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- Big 4-Color Decal
- All Fibre Parts Pre-Cut
- Data Sheet on the Real F-16



1 MODEL KIT  
 Paint and Glue not included.  
 1 MODÈLE RÉDUIT  
 Peinture et Colle non comprises.



**RECOMMENDED ENGINES**  
 A8-3 B4-4  
 B6-4 C6-5

**SPECIFICATIONS**  
 Body Diam. .... 1.0"  
 Span. .... 7.0"  
 Net Wt. .... 2.0 oz.

**FLYING MODEL ROCKET KIT**  
 ENGINES NOT INCLUDED

ASSEMBLED LENGTH 15.0"

RECOMMENDED FOR AGES 10 TO ADULT

#5317