



FLY'N THINGS™

# **CUT, FOLD & FLY**

## **DIME-WEIGHT FLYING PAPER AIRPLANES**

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PKAeronaut@aol.com

## **WWII - The Pacific**

**Flying Tigers P-40**

**Japanese Zero**

**USN F6F Hellcat**

**Japanese Aichi Val**

**USN SBD-6 Dauntless**

**Japanese Nakajima Oscar**

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# Dime-Weight WWII Flying Paper Models

Paper models of all types are popular in many countries. Called Paper-Card Modeling in Europe, it spans the range from simple folded-paper darts, to complex three-dimensional models of airplanes, ships and buildings.

The style of paper-plane construction used in this book was developed by Wallis Rigby, an Englishman. He was internationally known for his paper models of airplanes and trains. In addition to Rigby's many books of paper-model WWII airplanes, he developed models similar to those in our book as cereal premiums for General Mills. Mail in two box tops from Wheaties cereal and you received a pair of paper airplanes. In all, this type of model gave thousands of kids and adults their first try at model building.

We've attempted to retain the simplicity and flavor of the original models. Improvements in layouts and a new size make the models easy to build and great flyers. And, there are new models that weren't in the Rigby series, like the SBD-6 Douglas Dauntless dive bomber. All models have stand-off scale outlines and details of the real airplane. Colors, too, give an over all scale appearance. Detailed picture instructions make it easy for even young modelers to build a successful flying model.

## The Simple Tools Needed

Most of what you'll need is already on hand. Just scissors, a single-edge razor blade and some glue will do. However, we do have some suggestions to make it easy. Please follow the step-by-step instructions. There are two basic types of construction — airplanes with radial engines and in-line engines.

Rather than repeating dozens of steps for each model, there is a single, combined, set of illustrated instructions. Start by building a Japanese Zero. This shows you all of the construction steps needed for any of the radial-engine models. Next, build the Flying Tigers' P-40. The P-40's in-line engine fuselage construction, and special features like the standard canopy are shared by other models, too. And, extra instructions are given for custom details, like the landing gear for the Aichi "Val" dive bomber.

Use a model knife, or even a small disposable type, with a triangular blade for cutting out slots and the parts. Small scissors are useful for cutting curves, like wing tips. A straight edge as a cutting guide makes it easy to trim parts to shape. For easy building, please follow our instructions: Cut slots, score on the dashed lines, then cut out the parts.

One can just bend the parts on the dashed lines, but accurate assembly suffers. It's best to score along each dashed line. We use a dried out fine-line ballpoint pen, but any blunt blade, like a butter knife, will do. **HINT!** An *empty* ballpoint pen will still have a bit of ink. Some ink may come out from the heat of your hand. To be sure the pen is completely dry, close the air-vent hole with a drop of cement (the plastic "pencil-type" pens usually have the vent hole at the top end or under the eraser).

The best method of gluing the wing and tail parts together is with an ordinary glue stick — Dennison's brand works well. Remember, that paper absorbs water and warps; **DO NOT LAMINATE THE WINGS AND TAIL WITH WATER-BASED GLUE!** In all cases, weight down the laminated parts and let dry. The wing and tail parts must be perfectly flat.

You can use a very light coat of water-based "White" glue for assembly. Put some glue in a plastic lid, like on a coffee can. Let the white glue dry a bit so that it become "tacky." Apply to parts with a toothpick. Wipe Off any excess with a damp paper towel.

For a more realistic model, color the cut edges of all parts *before* assembly. Use a colored marker pen or pencil around the edges. During Assembly, after cutting off the tabs on the fuselage, color the cut edges of the tab with marker pens or colored pencils of the same color as the fuselage.

Our last suggestion is the nose weight. Our models were designed to use the new silver-laminate US dime. It weighs about 2.3 grams. If you have to use something else, like a small metal washer, and the model stalls, add a tiny piece of modeling clay to the nose. If the model dives, use a lighter weight. **HINT!** Experiment with a radial-engine model. Complete the nose cowling but don't cement in place until after your test flights.

Build, Fly and above all, HAVE FUN!



# FLY'N THINGS™

## Dime Weight Paper Models Building & Flying Instructions

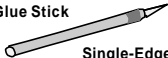
**1.** Use These:



White Glue Or  
Model Cement

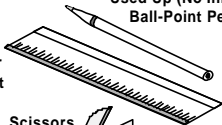


Glue Stick



Single-Edge  
Razor Blade  
Or Model Knife

Score Folds With A  
Used Up (No Ink)  
Ball-Point Pen

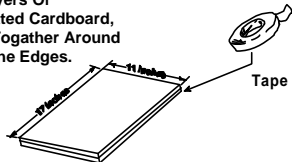


Scissors

Metal-Edge  
Ruler Or  
Straight Edge

**2.** AND, Tape And A  
Cutting Board:

Two Layers Of  
Corrugated Cardboard,  
Taped Together Around  
All Of The Edges.



**Click On Individual Parts For More Information**

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# Dime-Weight WWII Flying Paper Models

## Stand-Off Scale Japanese Zero A6M5

### What You'll Need

For the Zero model you'll need a few 8-1/2" x 11" sheets of white, 67-pound Vellum Bristol. Most office supply stores carry it. One brand is Wausau Paper's Exact® Vellum Bristol. If you can't find the Vellum Bristol, use smooth paper from an artist's pad that's about the thickness of a post card. Or, try your local print shop. For instruction booklets, the regular paper you use in your printer is fine.

### General Printing Information

The **FLY'N THINGS™** PDF Zero files have been tested with an HP LaserJet III, a LaserJet III/Adobe Postscript™, and a Canon BJC-800 CMYK color printer, running under Windows 3.1 and 3.11. and MS-DOS 6.x. The fine-line quality will depend on the resolution of your particular printer. And, some versions of the Adobe Acrobat Reader, like Version 1.0 for DOS, may not support all printers. Or, support some, like color bubble-jets, for monochrome-only printing.

All sheets have been sized to allow extra margin for some ink-jet printers, like the HP Deskjets, that need extra space at the bottom of the sheet. Model sheets in both black-and-white and color are provided so you can use your present printer. The color sheets are set for the Canon BJC-800 CMYK color ink-jet printer. For other color printers you may need to set the printer's driver to "darker" to get the best colors. Or, if using a driver that has "screen match" capability, reduce the monitor intensity for a darker printout. See your printer manual for detailed information.

When printing card stock on any printer, make sure you follow the maker's instruction — check your printer manual. For some Ink Jets, you may have to "Help" it feed the paper. For most laser printers, open the back door and setup for a "straight-through" paper path. If your printer can't handle the card stock, print the image on thin paper with a smooth finish, like Hammermill Laser Print. Then, laminate the paper to the card stock with a glue stick; Dennison's brand works well. Or, print on paper and then use a copy machine to copy your printed image to the card stock.

### Printing Setup

To print these samples, setup your DEFAULT Windows Printer for PORTRAIT mode, 8-1/2" x 11" paper, and high-quality printing. The samples are viewed/printed with Adobe Reader. Make sure you use the highest resolution for your printer. And, set to print the current page. The Adobe PDF printer control automatically centers the image on the printed page if you check the "Shrink To Fit" box. Please CHECK the printer-resolution setting in Adobe-Reader Print Dialog box before printing, as it overrides the printer control-panel's settings!

**Please Note:** The **QUALITY** of the printed image depends on the resolution of your printer. The paper-model Zero's artwork and instruction sheets are in a vector format — NOT a Bitmap image. The higher the printer resolution, the better the printed image will be. If you have difficulty in printing, particularly colors, check that you are using the latest version of your color-printer

driver. We have found that some print drivers, like the original 8-bit driver for the Canon BJC-800, can skip patches of color when printing from the Adobe Acrobat™ Reader.

## True Waterproof Ink-Jet Printing!

After almost two years of experimenting with color ink-jet printing we have at last found a solution. We are now able to supply special, imported, card stock and paper for color ink-jet printing that is REALLY waterproof - Not just smudge proof. You can actually soak it in water without bleeding! **No special inks or cartridge reloading is needed!! We have extensively tested this paper with Canon Bubble-Jet printers. It should work with most other color ink-jet printers, but with the wide variety of printers available it's impossible for us to test them all. Please see the order blank for prices and shipping charges. If in doubt order the sample pack to try on your ink-jet printer.**

### Printing The Dime-Weight WWII Zero

First, print out the instruction sheets on 8-1/2" 11" paper with the printer set to "portrait" mode. The instructions sheets are arranged in order. Start with the front cover. The next sheet is to be printed on the back of the cover. Likewise, print the second sheet front and its reverse side. Fold in half, to make a booklet.

The model of the Zero prints on a three sheets of 8-1/2" x 11" card stock one sheet each for the Fuselage, Tail and Canopy and the Wing.

You might want to mail a copy of the your paper Zero to your friends — maybe they will get hooked on paper models, too. :=))

### Coloring The Japanese Zero

The top of the Zero is a medium-dark green. Color the TOP of the FUSELAGE, WING, TAILPLANE and CANOPY frame. Use the same green on BOTH sides of the RUDDER. The COWL and COWL TRIM should be colored a flat, anti-glare black. The BOTTOM of the FUSELAGE, WING, TAILPLANE and AIRSCOOP are light blue. The INSIGNIA on the WINGS and FUSELAGE is a deep red. Insignia on the sides of the fuselage and the top of the wing is surrounded by a white band. The FUSELAGE and top of WING leading-edge TRIM is a medium yellow. The RUDDER numbers are white and the CANOPY panes are light blue with a dark-green frame.

Coloring you Zero depends on how you printed it. If you use a laser printer, then the black image is waterproof. You can use about any type of color that doesn't contain a solvent that "melts" the laser printer's wax/carbon image. Check a small section of the title to make sure before starting to color your model. If you use water colors, apply a light "dry" coat — too much water causes the paper to warp. Many of the water-color markers work fine, just apply light coats so you don't soak the paper.

For water-proof Ink-Jet images, you can use either water- or solvent-based markers pens or colors. Again, make sure that you don't saturate the paper so that it warps. A few light coats,

with time to dry between applications works well. If your Ink-Jet image isn't waterproof then you must use solvent-based colors — water-based colors make the ink-jet's black image run and spoil your work.

Another method of getting a colored model is to print on colored card stock. Most card stock, like Wausau Paper's Exact(r) Vellum Bristol, comes in a wide range of colors. Print both sheets on dark-green card stock and second set on light-blue card stock. Cut apart the top and bottom of the WING and TAILPLANE along the dashed fold line. Line up the edges and laminate the dark-green top to the light-blue bottoms. Fill in details, like windows and insignia with either colored paper or opaque colors.

## Building Tips

### Cutting And Folding Parts

Step 2 shows how to make a suitable cutting pad. Even the back of a paper tablet will work. You need a have a flat, smooth surface to cut and assemble on. And, make sure it's thick enough so you don't cut through and ruin your work table. We generally use on one of the new self-healing 11x17 inch cutting mats.

Use a model knife, or even a small disposable type, with a triangular blade for cutting out the parts. If available, use the "scalpel" type knife as it has a thin blade. Small scissors are useful for cutting curves, like wing tips. A "straight" metal straight edge as a cutting guide makes it easy to trim parts to shape. For easy building, please follow our instructions: Score on the dashed lines, then cut out the parts.

### Cutting Boards

The main thing is to have a flat, smooth surface to cut and assemble on. And, make sure it's thick enough so you don't cut through and ruin your work table. If you use heavy card stock, like the back of a tablet, just tape together several layers to get the thickness and rigidity needed. Plain transparent or masking tape is fine.

We generally use on one of the new self-healing 11 x 17 inch cutting mats. It gives an excellent surface to cut on and the self-healing feature leaves a smooth surface after a cut is made. It's also large enough to hold the model and its parts between building sessions. For models with small parts, tape a plastic bag to the end of your cutting board. Put ALL of the cutting scraps into this bag. If you accidentally should "throw away" a small part, just dig it out of the bag.

### Model Knives

Use a model knife, even a small disposable type, with a triangular blade for cutting out slots and the parts. Or, a sharp single-edge razor blade will do. We find that the modeler's version of the surgeon's scalpel is an excellent tool. The thin, replaceable, blades give minimum edge distortion when cutting out paper parts. For easy building, please follow our instructions: Cut slots, score on the dashed lines, then cut out the parts. Model Knives.

### Special Scissors

Small curved-blade scissors make it easy to cut curves, like wing tips. Here's how to minimize distortion when cutting out parts. Cut along a part's straight lines with your knife and a straight-edge

guide. Then, with the scissors, make a rough cut about 1/8th inch larger than the curved portion. Trim to final size with the curved scissors.

### Cutting A Straight Line

A metal straight edge as a cutting guide makes it easy to trim parts to shape. One of the center-handle metal straight edges, with one side beveled, makes it easy to align along the cutting line. If the straight-edge tends to slide when cutting out heavy-weight card stock, try putting a light coat of regular rubber cement on the bottom. When dry, this gives a non-skid surface. Or, even a couple of strips to paper masking tape will work.

### Folding The Parts

One can just bend the parts on the dashed lines, but accurate assembly may suffer. It's best to score along each dashed line. For many paper models, scoring on the printed surface can give flaking of the model's "painted" finish. Score along the fold line on the BACK side of the part, prior to cutting it out. An easy way to transfer the line location is to make a pin hole at each end of the line just slightly past the part's outline. Turn the part over, and score between the pin pricks. Use care, especially with laser-printed parts, as the "color" tends to chip easily.

**HINT!** An empty ball-point pen will still have a bit of ink. Some ink may come out from the heat of you hand. To be sure the pen is completely dry, close the air-vent hole with a drop of cement (the plastic "pencil-type" pens usually have the vent hole at the top end or under the eraser). If in doubt, make a pin hole at the end of each dashed line. Then, score on the back side of the part.

### Coloring Cut-Paper Edges

For a more realistic model, color the cut edges of all parts **before** assembly. Use a colored marker pen or pencil around the edges. Make sure you test a marker pen on a scrap piece of paper from your model first. Some markers can "bleed" into the paper fibers, ruining the part's finish.

### Glues & Cement

The so-called "Craft" glue is a thick type of water-based "white" glue. It dries clear. You can also use a very light coat of water-based "White" glue, like Elmers® brand, for assembly. Put some of this thin glue in a plastic lid, like one from a coffee can. Let the white glue dry a bit so that it become "tacky." Apply to parts with a toothpick. Immediately wipe off any excess with a damp paper towel.

Or, you might wish to try a model-type cement. We find that the Duco® brand of household cement works fine. It dries fast, but still has a reasonable working time letting you slide parts into final position. For any glue or cement, use small amounts to avoid warping the paper.

If your printing and "colored ink" are waterproof, like from an Laser printer, use thick craft-type "white" glue for assembly — remove any that squeezes out from the joints with a damp paper towel or cotton swab. If you can't find the thick "craft-type" white glue, just squirt some of the regular stuff into a plastic coffee-can lid and let it thicken a bit. Apply with a toothpick. Do

make sure that you test fit all parts before assembly. A bit of error in cutting on the line, inside or outside the line, can make a big difference.

If your Zero colors and printing aren't waterproof, as with most Ink-Jet printers, we find that the Duco Brand of Household Cement—it's much like model-airplane glue—works very well. It's a bit thinner than regular model cement, giving a bit of “working” time to slide the parts into final position. The solvent in “Duco” DISSOLVES laser-printed images, so if you printed with a laser, use care! **DONOT USE THE “INSTANT” or so-called CRAZY GLUES!!**

## Tools

And excellent source of small tools for modelers is:

**Micro Mark**

**340 Snyder Avenue**

**Berkeley Heights, NJ 07922-1595**

**Send \$1 For Color-Illustrated Catalog.**

**1 (800) 225-1066**

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**Phil Koopman**  
2805 Hunt Club Lane  
Orlando, FL 32826-3909

America On Line: PKAeronaut  
Internet: pkaeronaut@aol.com  
Voice: (407) 381-9464

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# Order Blank Dime-Weight Paper Models

Prices Effective 1 February 1995

Prices Subject To Change Without Notice

Print Out This Form

CASH INVOICE: (Please Print Clearly)

Name: \_\_\_\_\_

Address: \_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

**WWII The Pacific - Six Printed, Full-Color Dime-Weight Models  
And Instruction booklet**

**US\$16.50**

**WWII The Pacific - Electronic PDF Book**

**Six Color & Monochrome Dime-Weight Models**

**And Instruction booklet sheets. (3-1/2" HD IBM Format Disks)**

**US\$16.50**

**Special Ink-Jet Paper & Card Stock**

**Card Stock: Ten(10) 8-1/2" x 11" Sheets**

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**Paper: Ten(10) 8-1/2" x 11" Sheets**

**US\$5.00**

**SAMPLE Pack - Three 8-1/2" x 11" Sheets of Card Stock & Sample Paper**

**US\$5.00 POSTPAID**

**U.S.A. & Canada Shipping & Handling PER ORDER**

**US\$3.50**

**(For Overseas Orders, Please Contact Us For Costs)**

**Payment Enclosed (Sorry, No Checks: Cash Or Money Order Only): US\$ \_\_\_\_\_**

*If sending cash, please send by Registered Mail for your protection.*

*It's impossible for us to guarantee that we will receive your order.*

**Please give your Email address \_\_\_\_\_**

**MAIL TO:**

**Phil Koopman**

**2805 Hunt Club Lane**

**Orlando, FL 32826-3909**

**Thank You :**

**Your order will be sent by First Class Mail As Soon As Payment Is Received.**

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# Paper-Model Sources

Version 5  
5 March 1995

A Listing of known US Suppliers of paper-model airplanes. If you know of other sources, please E-Mail me so I can add them to the list. Please note that this list was compiled over a considerable period of time, and that some companies may no longer be in business. If in doubt, write FIRST, then order.

**Buckford Sign Co./Models**  
**700 Harvest Park Drive, #K**  
**Brentwood, CA 94513**  
**(415) 634-3073**

'Has advertised a line of plastic and paper-card models. Send a stamped, self-addressed #10 envelope for list.

**Camelot Models**  
**3055 Amarillo Ave.**  
**Simi Valley, CA 93063**  
**805-581-9723**  
**Tom & Teresa Wilson**

Have an illustrated retail catalog. Although they will send catalog at no cost. Suggest you send \$1.00 to help defray cost of postage. Expect to have 1994-95 catalog during August of 94. (Addition Thanks to: mylesm1932@aol.com (MylesM1932))

**The Cardformation Newsletter**  
**PO Box 375**  
**Hazelwood, MO 63042-0375**

This is a NEW startup. A sample copy was enclosed with the Winter Catalog from Paper Models International - *There is no connection between the two operations*. The sample copy was pages (11 x 17 printed both sides, folded in half). Subscription is \$10 per year. Publisher is unknown -- address the "Editor."

**>DS-BA Scale Models**  
**>1412 Ave. M**  
**>Suite #2313**  
**>Brooklyn, NY 11230.**

>Advertising an F117A kit for \$9.45 (plus \$2.45 Shipping and Handling) with a promise of more to come.

\* I think the above has been replaced by:

**Moshe Lemer**  
**1375 Coney Island Avenue**  
**Suite 107**  
**Brooklyn, NY 11230**

Israeli models of: Apache, F16D, TA-4 Skyhawk, F-117A, Space Shuttle Discovery Mig-29, Mig-23. These are Wilhelmshaven-style models in 1/50th scale, mostly in Israeli Air Force markings. \$10 each post paid.

**EGA Design Specialists**  
**4121 Fairmont Ave.**  
**San Diego, CA 92015**

A line of semi-profile 1/81st Scale paper jet models. Over 40 in the list. Models were priced at \$4.95 for a set of two of the same models. Author of the Tab book "Cardstock Model Aircraft" published about 1987. My information is old, so drop a post card to see if they are still active.

**FlyPaper**  
**PO Box 47186**  
**Wichita, KS 67201**

This is a newsletter specifically for paper models. From an old table of contents, it appears to be devoted mostly to paper airplanes of all types, both folded Origami-style and builtup. This is *OLD* information and the FlyPaper may no longer be published. Write for current status; possibly old issues may still be available.

**H & B Precision Card Models**  
**2026A Spring Branch Drive**  
**Vienna, VA 22181-2973**  
**Phone/Fax: (703) 281-0813**

Wilhelmshaven (Germany) line of Merchant Ships, Battle Ships and Aircraft (WWI thru Present). Catalog \$2.00

**Robert Kaelin**  
**1099 Ostrander Ave.**  
**Riverhead, NY 11901**

Currently advertising a small line of 1/24th scale card models. Includes private planes, like the Cub, for \$7.00 each postpaid. Also, a Focke-Wulf Stieglitz biplane for \$9.

**Paper Airplanes International**  
**433 Nihoa Street**  
**Kahului, HI 96732**  
**(808) 244-4667**

Ray Roberts runs a Paper-Airplane Museum on Maui Island in Hawaii. In addition to the standard US and Overseas lines of paper airplanes, he has a stock of very unusual paper-airplane models that range from profile gliders to radio-controlled planes. Ray also handles my line of FLY'N THINGS™ Paper Models.

Instead of a catalog, Ray published a book with listings of every kind of paper plane he could find — from the early 1900's to the present. The over 100-page book lists, and illustrates, well over 600 paper airplanes. His book sells for \$18 post paid, and includes a paper model. According to his recent advertisement in Flying Models Magazine, the \$18 will be deducted from your first order of \$25 or more.

 **Table Of Contents**

**MORE** 

**Paper Models International**  
**9910 Bonnie Brae Drive**  
**Beaverton, OR 97005-6045**

Their own line of eight 1/32 scale WWII fighter planes and three 1/24-Scale American Light Planes. Extensive listing of paper models from all over the world. Line includes Wilhelmshaven, JFS and Geli from Germany, Modelcard and JSC from Poland and LS of Holland. Catalog includes paper models of all types; Ships, planes, buildings, castles, museum pieces and more. Their 48-page catalog is 50 cents (Send a \$1 for catalog and postage).

**Peck-Polymers**  
**P.O. Box 710339**  
**Santee, CA 92072-0399**  
**Phone: (619) 448-1818**  
**Fax: (619) 446-1833**

Peck-Polymers primarily is a complete mail-order source for flying model airplanes. They specialize in small rubber-powered, electric and CO2-engine powered models and supplies. The catalog lists a few paper models, including a set of die-cut F-86 and Mig-15 gliders. The Catalog is \$4.00

**The Paper Soldier**  
**8-C McIntosh Lane**  
**Clifton Park, NY 12065**

An eclectic collection of all types of paper models, including paper airplanes. Catalog \$5.00.

**True-Flight Flying Models**  
**(Robert Fudold)**  
**PO Box 62**  
**Roseville, MI 48066**

Published color reproductions of the original Jack Armstrong Wheaties Cereal perimums. Also handled several other types of paper-model airplanes. Write for current status. If no longer in business, the Jack Armstrong replicas are being sold by Paper Models International and Paper Airplanes International.

**Watershed Publishing**  
**1812 Brookter St.**  
**Slidell, LA 70461**

Currently advertising "Eight Great Airplanes" you can make with a pencil and Index cards; a booklet for \$5

**FLY'N THINGS™**  
**Phil Koopman**  
**2805 Hunt Club Lane**  
**Orlando, FL 32826-3909**  
**(407) 381-9464**

InterNet E-Mail: pkaeronaut@aol.com

The Prices For The FLY'N THINGS(tm) Paper Planes are:  
(All Models Include Pictorial Instructions, and are flying models unless noted) This is the "ONLY" catalog.

**WWII The Pacific**  
**Six Dime-Weight Model Pack \$16.50**

Full-Color Printing  
Color-Cover Assembly Booklet and  
Zero, Flying Tigers P-40, F6F Hellcat,  
Dauntless, Achi Val and Nakajima Oscar.  
Wingspan Approximately 7-1/2 Inches.

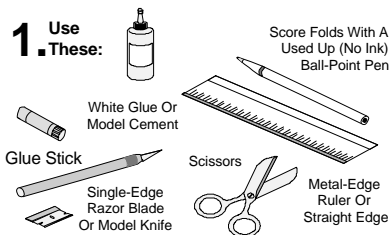
**Gulf War: F117A Stealth Fighter/Bomber**  
**(Display Models)**

Full-Color Printing  
Large F-117A \$4.98  
F-117A Postcard \$1.97

Shipping & Handling Charges:  
Per Order: \$3.50

Also in work are computer programs and instruction books so you can design your own models from scale three-view drawings. These programs automatically generate 3-D CAD (DXF format) drawings from a three-view aircraft drawing with fuselage sections and airfoils. The programs convert these 3-D drawings into projected 2-D patterns for the paper model. These programs work with 2- or 3-D CAD programs, like AutoCAD LT, and illustration programs like Micrografx Draw and Designer. Watch for them — just do a program search for PKAeronaut on America On Line.

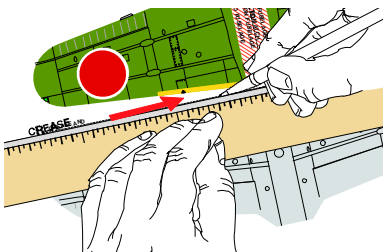
## DIME-WEIGHT FLYING WWII PAPER PLANES



Only Simple Tools Needed.  
Most, You Already Have  
Around The House. Easy  
Tab & Slot Construction.

Great For All Modelers,  
Ages 10 And Up

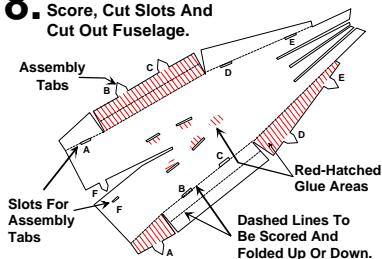
**3. Score Along Dotted Line Of Wing With The Used Ball-Point Pen Or A Smooth-Edge Butter Knife And Fold Down.**



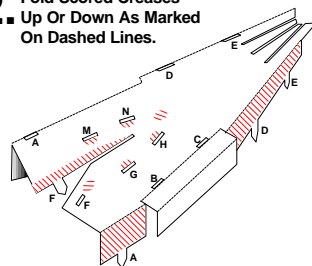
Complete Step-By-Step  
Instructions Guide You.  
Plus, Special Tips To  
Help Make These Models  
**FUN To Build And FLY!**

### STEP-BY-STEP INSTRUCTIONS

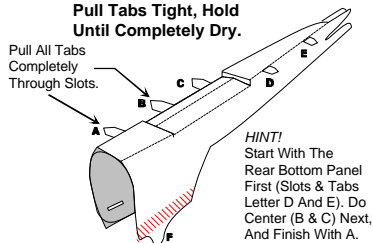
**8. Follow Steps 9 Thru 11 To Score, Cut Slots And Cut Out Fuselage.**



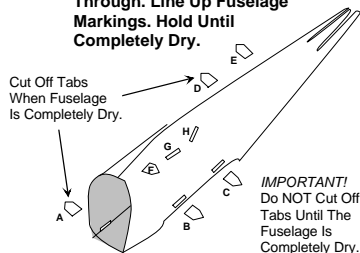
**12. Fold Scored Creases Up Or Down As Marked On Dashed Lines.**



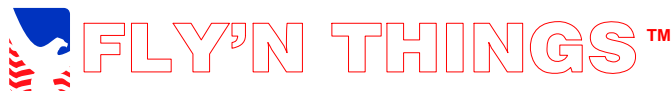
**13. Push All Bottom Tabs Through The Matching Slots. Apply A Light Coat Of Glue To The Hatched Area. Pull Tabs Tight, Hold Until Completely Dry.**



**14. Glue Hatched Area At the Top, Front Of Fuselage. Pull Tab (F) Completely Through. Line Up Fuselage Markings. Hold Until Completely Dry.**

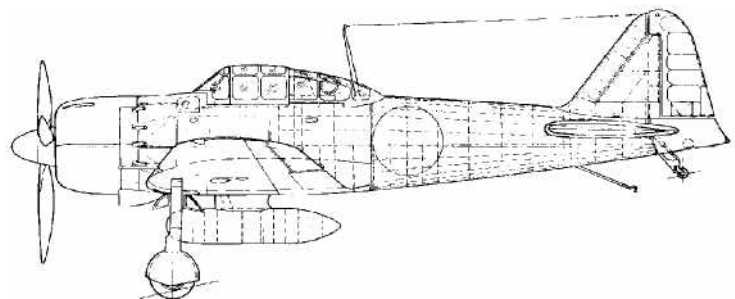


PRINTED IN U.S.A.



## CUT, FOLD & FLY

### DIME-WEIGHT FLYING PAPER AIRPLANES



## Japanese Army Zero

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PKAeronaut@aol.com

## WWII - The Pacific

Flying Tigers P-40

Japanese Achi Val

Japanese Zero

USN SBD-6 Dauntless

USN F6F Hellcat

Japanese Nakajima Oscar

Dime-Weight Flyers In Full Color With Instruction Booklet. US\$20.00 (\$16.50 + \$3.50 S&H) - Cash Or Money Orders Only; No checks, PLEASE.

Phil Koopman

2805 Hunt Club Lane

Orlando, FL 32826-3909 U.S.A.

**MORE**





# FLY'N THINGS™

## Introducing The World War II Dime-Weight Flying Models

Paper models of all types are popular in many countries. Called Paper-Card Modeling in Europe, it spans the range from simple folded-paper darts, to complex three-dimensional models of airplanes, ships and buildings.

The style of paper-plane construction used in this model was developed by Wallis Rigby, an Englishman. He was internationally known for his paper models of airplanes and trains. In addition to Rigby's many books of paper-model WWII airplanes, he developed models similar to this as cereal premiums for General Mills. Mail in two box tops from Wheaties cereal and you received a pair of paper airplanes. In all, this type of model gave thousands of kids and adults their first try at model building.

We've attempted to retain the simplicity and flavor of the original models. Improvements in layouts and a new size make the models easy to build and great flyers. And, there are new models that weren't in the Rigby series, like the SBD-6 Douglas Dauntless dive bomber. All models have stand-off scale outlines and details of the real airplane. Colors, too, give an over all scale appearance. And, detailed picture instructions make it easy for even young modelers to build a successful flying model.

### The Simple Tools Needed

Most of what you'll need is already at hand. Just scissors, a single-edge razor blade and some glue will do. However, we do have some suggestions to make it easy. Please follow the step-by-step instructions. There are two basic types of construction -- airplanes with radial engines and in-line engines.

Rather than repeating dozens of steps for each model, there is a single, combined, set of illustrated instructions. Start by building a Japanese Zero. This shows you all of the construction steps needed for any of the radial-engine models. Next, build the Flying Tigers' P-40. The P-40's in-line engine fuselage construction, and special features like the standard canopy are shared by other models, too. And, extra instructions are given for custom details, like the landing gear for the Achi "Val" dive bomber.

Use a model knife, or a small disposable type, with a triangular blade for cutting out slots and the parts. Small scissors are useful for cutting curves, like wing tips. A straight edge as a cutting guide makes it easy to trim parts to shape. For easy building, please follow our instructions: Cut slots, cut out the parts, then fold on the dashed lines. Fold the parts on the dashed lines up or down as indicated. Crease the fold with your fingers or the side of a smooth object, like a pen. If making straight folds is a problem, push a pin through the card stock at each end of the dashed line. Turn over the part and score on the **BACK SIDE** of the part. We use a dried out fine-line ballpoint pen, but any blunt blade, like a butter knife, will do.

**HINT!** An empty ballpoint pen will still have a bit of ink. Some ink may come out from the heat of your hand. To be sure the pen is completely dry, close the air-vent hole with a drop of cement (the plastic "pencil-type" pens usually have the vent hole at the top end or under the eraser).

The best method of gluing the wing and tail parts together is with an ordinary glue stick -- Dennison's brand works well. Remember, that paper absorbs water and warps; **DO NOT LAMINATE THE WINGS AND TAIL WITH WATER-BASED GLUE!** In all cases, weight down the laminated parts and let dry. The wing and tail parts must be perfectly flat.

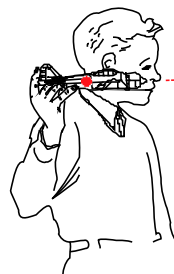
You can use a very light coat of water-based "White" glue for assembly. Put some glue in a plastic lid, like on a coffee can. Let the white glue dry a bit so that it becomes "tacky." Apply to parts with a toothpick. Wipe off any excess with a damp paper towel or cotton swab. If you are careful not to get smears from excess glue, you may wish to use Household Cement, like Duco brand, for part assembly. It dries fast, but has enough working time to let you slide the parts into final alignment. For large parts, like assembling the wing to the bottom of the fuselage, try the double-glueing method. Smear a light coat of glue on both parts. Let dry. Then, again apply glue to ONE part and assemble. Slide into alignment and hold a few moments until dry.

For a more realistic model, color the cut edges of all parts before assembly. Use a colored pencil around the edges. During Assembly, after cutting off the tabs on the fuselage, color the cut edges of the tab with colored pencils of the same color as the fuselage.

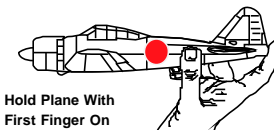
Our last suggestion is the nose weight. Our models were designed to use the new silver-laminate US dime. It weighs about 2.3 grams. If you have to use something else, like a small metal washer, and the model stalls, add a tiny piece of modeling clay to the nose. If the model dives, use a lighter weight. **HINT!** Experiment with a radial-engine model. Complete the nose cowling but don't cement in place until after your test flights.

**Build, fly and above all, HAVE FUN!**  
PKAeronaut@aol.com

## FLY PLANE LIKE YOU THROW A DART!



Throw Your Plane With A Smooth, Steady LEVEL Motion. After You Get Used To How Your Model Flies, You'll Be Able To Do "Stunts," Too. A Hard Throw, With The Nose Pointing UP, Gives A Loop! Or, Try Tilting Your Plane For A Hard Banking Turn.



Hold Plane With First Finger On Rudder As Shown

## ADJUSTING YOUR PLANE FOR FLIGHT



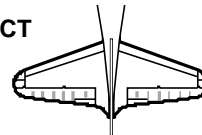
If Your Plane Hits Something And Dents The Wing, Smooth Out Dent With Your Fingers. Keep Wings **FLAT** - DO NOT Curve Or Bend.

When Properly Made, Your Model Should Look Like This: Proper Dihedral And Correct Position Of The Rudder And Tailplane

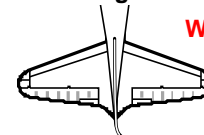


The Rudder Must Be Straight - NOT Curved Or Twisted. It Must Be Vertical And In Line With The Fuselage.

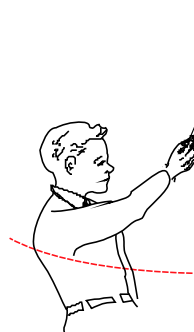
**CORRECT**



**WRONG!**



## FLY WITH G-LINE INDOORS OR OUT!



For Great Fun Indoors Or Out! Any Of Your Models Fly With G-Line Control. You'll Soon Learn To Make Them Loop And Even Have "Dog Fights" With A Friend. This Picture Shows All That's Needed.

Tie A Thin String Or Thread To A Short Stick. Thread The Other End Of The Line Into The Wing As Shown Below. Start With 6 To 8 Feet Of Line. Swing The Stick Around Your Head From Right To Left.

Your Plane Will Rise And Fly At The End Of The G-Line. It Obeys Your Every Move For Speed And Control. You Will Soon Be Able To Perform Loops, Dives And Landings.

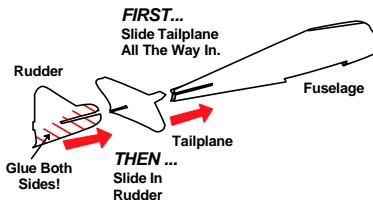


Tie A Light Line To The Leading Edge Of The Wing Near The Tip. Thread Line Through The Wing With A Needle. Tie A Large Knot.

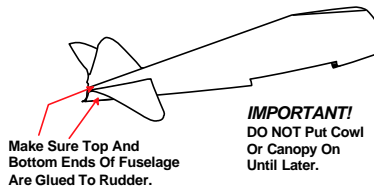
**MORE**

## FINAL ASSEMBLY JAPANESE ZERO

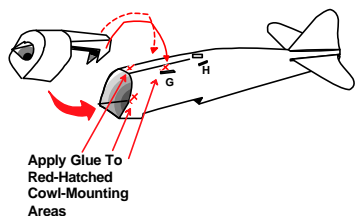
- 25.** Coat Red-Hatched Area Of Rudder With Glue. Slide Tailplane All Of The Way In. Then, Slide Rudder In.



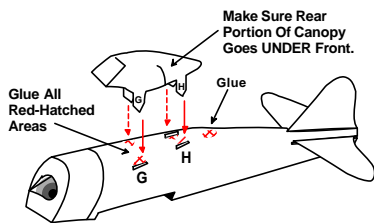
- 26.** Glue Ends Of Fuselage To Rudder. Check Vertical And Horizontal Alignment Of Rudder And Tailplane. Hold Until Glue Dries.



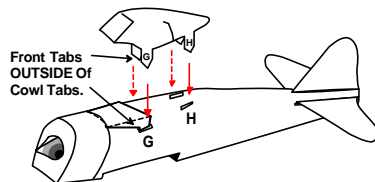
- 27.** For Planes With A Top-Panel Extension On The Cowl, Hook Tabs Into Fuselage Slots As You Slide The Cowl On.



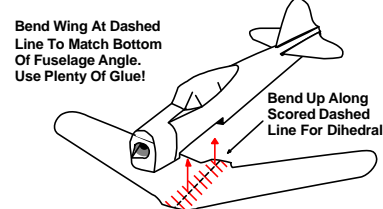
- 28.** Cement Glue Spots Next To Canopy Slots. Slide Canopy In Place. Hold Until Dry.



- 29.** For Planes With Cowl Extension, Make Sure The Front Tabs Of The Canopy Go On The Outside.

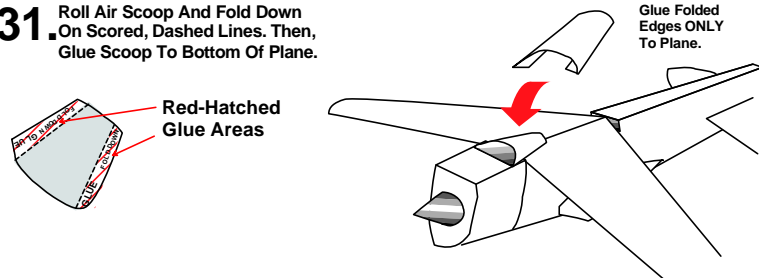


- 30.** Fold Wing Up EXACTLY Along The Dashed Line In Glue Area. Glue Wing FIRMLY To Bottom Of Fuselage. Hold Until Dry.



## ADDING FINAL DETAILS

- 31.** Roll Air Scoop And Fold Down On Scored, Dashed Lines. Then, Glue Scoop To Bottom Of Plane.



FLY'N THINGS™

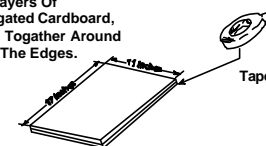
## Dime Weight Paper Models Building & Flying Instructions

- 1.** Use These:

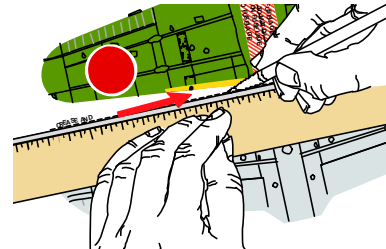


- 2.** AND, Tape And A Cutting Board:

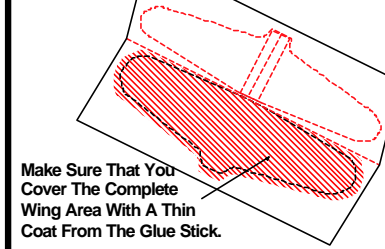
Two Layers Of Corrugated Cardboard, Taped Together Around All Of The Edges.



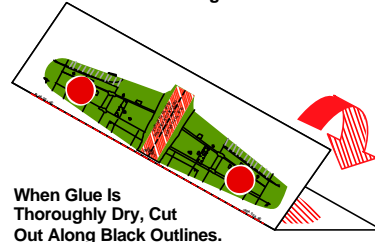
- 3.** Score Along Dotted Line Of Wing With The Used Ball-Point Pen Or A Smooth-Edge Butter Knife And Fold Down.



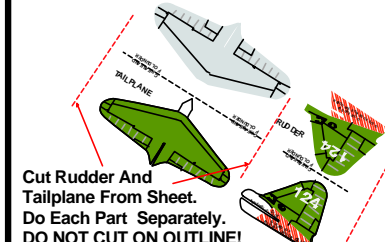
- 4.** With Printed Side Down, Coat ONE Inside Surface With The Glue Stick.



- 5.** Place Wing On A Flat Surface, Fold Down And Smooth Out Glue. Weight Down So That The Glued Wing Dries Flat.

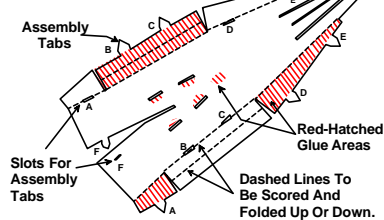


- 6.** Score, Fold And Glue The TAILPLANE AND RUDDER The Same Way You Did The WING.

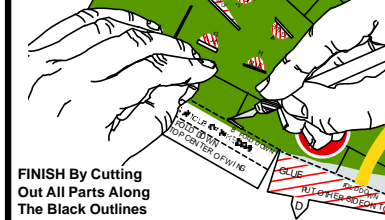


## CUT SLOTS & CUTOUT PARTS

- 7.** Follow Steps 8 Thru 10 To Cut Slots, Cut Out Fuselage And Fold Parts.



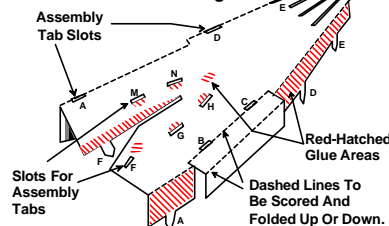
- 8.** FIRST, Cut Out Slots For Assembly Tabs With A Model Knife.



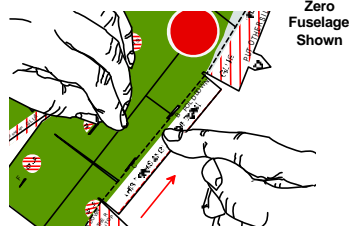


## RADIAL-ENGINE FUSELAGE ASSEMBLY

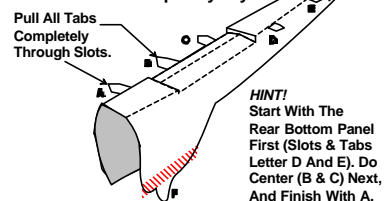
- 9.** Fold On Dashed Lines, Up Or Down As Marked. DO NOT SCORE TO Avoid "Paint" Damage!



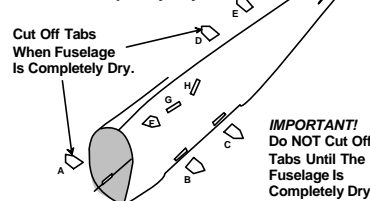
- 10.** Crease Folds With Your Finger Tip Or The Side Of A Smooth Pen.



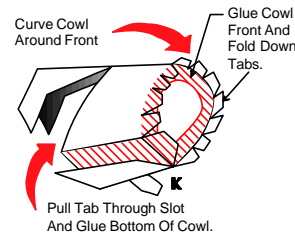
- 11.** Push All Bottom Tabs Through The Matching Slots. Apply A Light Coat Of Glue To The Hatched Area. Pull Tabs Tight, Hold Until Completely Dry.



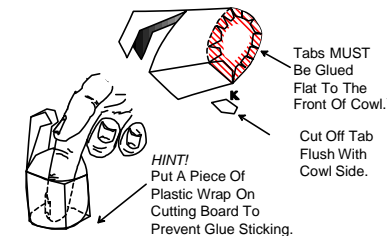
- 12.** Glue Hatched Area At The Top, Front Of Fuselage. Pull Tab (F) Completely Through. Line Up Fuselage Markings. Hold Until Completely Dry.



- 17.** Pull Tab Through Slot, And Glue Bottom Of Cowl. Align And Hold Until Dry. Glue Front Of Cowl And Fold Down Tabs.

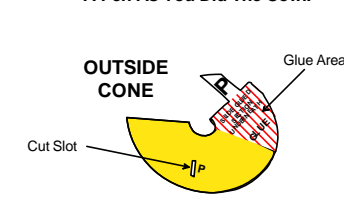


- 18.** Check To Make Sure All Tabs Are Glued Flat To The Front Of Cowl. Reglue If Needed. Then, Trim The Bottom Tab Flush With Side.

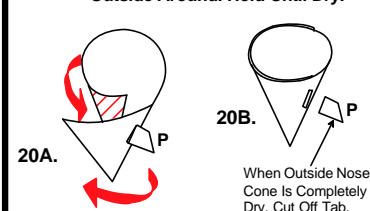


## NOSE CONE ASSEMBLY

- 19.** Cut Slot In Outside Nose Cone. Cut To Outline And Curve Over A Pen As You Did The Cowl.

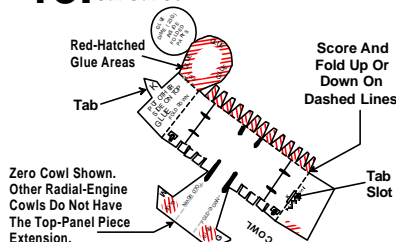


- 20.** Apply Glue To Red-Hatched Area. Pull Tab Through Slot. Curve The Outside Around. Hold Until Dry.

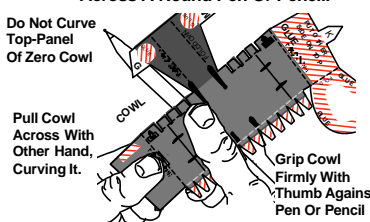


## RADIAL-ENGINE COWL ASSEMBLY

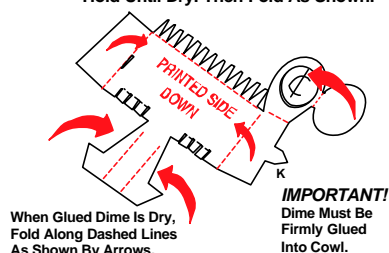
- 13.** Score, Cut Slot And Cut Out Cowl.



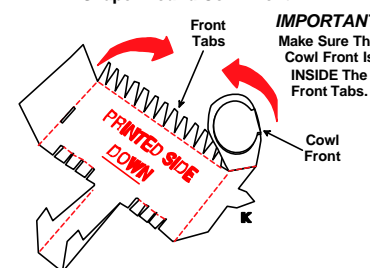
- 14.** Before Folding Cowl, Curve The Center Section By Pulling It Across A Round Pen Or Pencil.



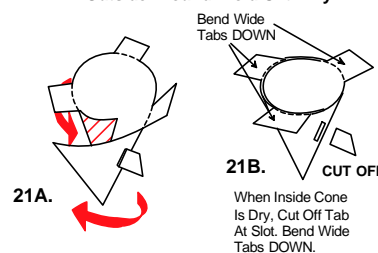
- 15.** Glue Dime To Cowl, And Fold Over Big Tab. Use Plenty Of Glue. Hold Until Dry. Then Fold As Shown.



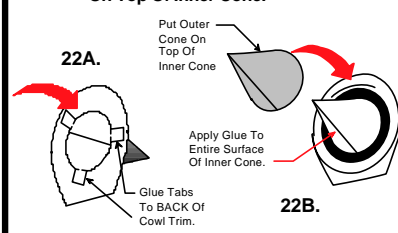
- 16.** After Cowl Is Curved And Folded, Shape Around Cowl Front.



- 21.** Apply Glue To Red-Hatched Area. Pull Tab Through Slot. Curve The Outside Around. Hold Until Dry.

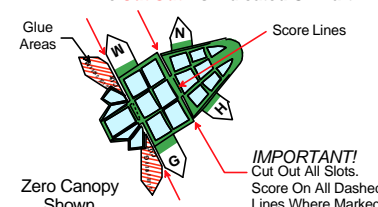


- 22.** Cut Out White Center Disk Of Cowl Trim. Insert INSIDE Cone From Back. Glue In Place. The, Glue Outer Cone On Top Of Inner Cone.

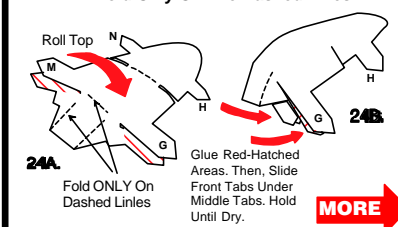


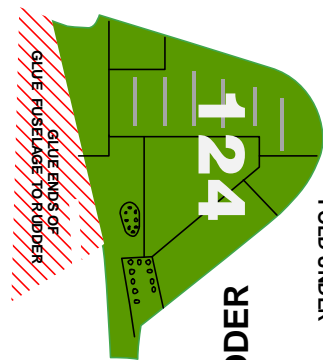
## BUBBLE CANOPY ASSEMBLY

- 23.** Cut Out The Canopy Along The Outlines. Make Sure All Slots Are Cut Out As Indicated On Part.



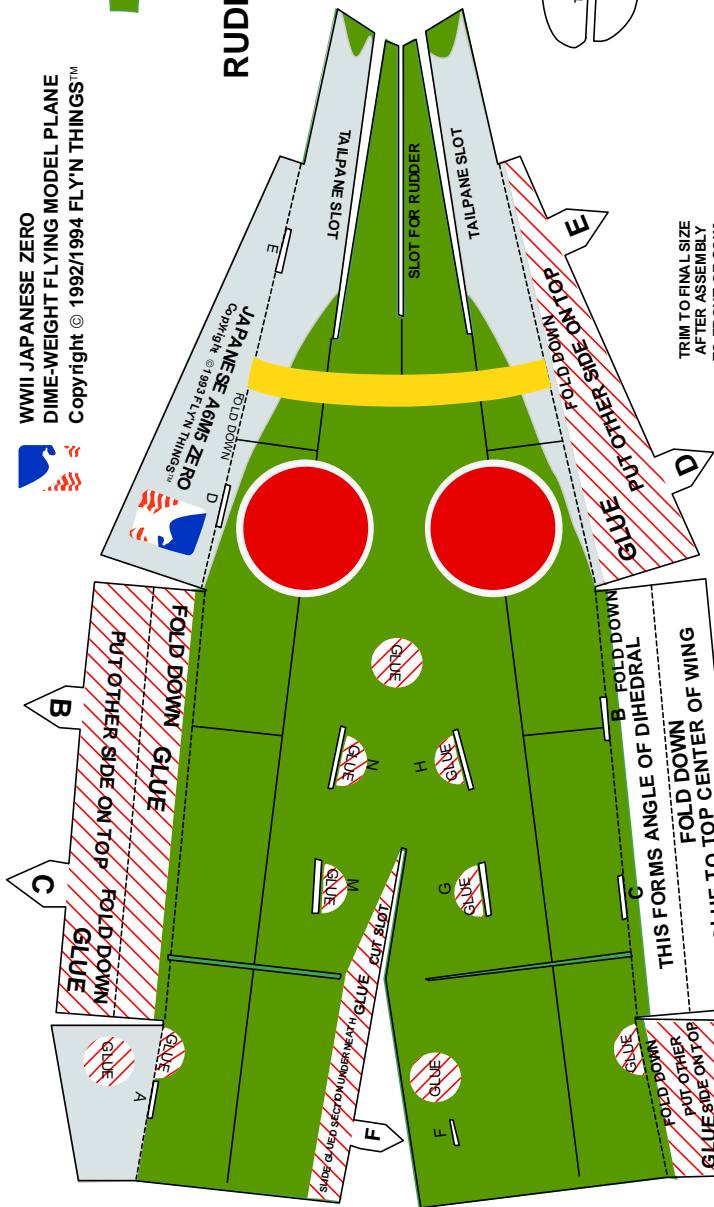
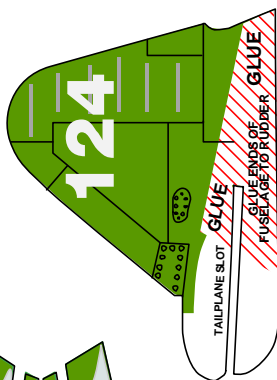
- 24.** ROLL... Do Not Fold Top Of Canopy. Fold Only On The Dashed Lines.





## RUDDER

CREASE AND  
FOLD UNDER



TRIM TO FINAL SIZE  
AFTER ASSEMBLY  
TO FRONT OF COWL

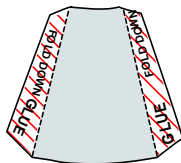


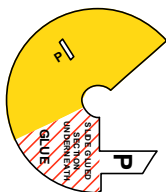
## COWL TRIM

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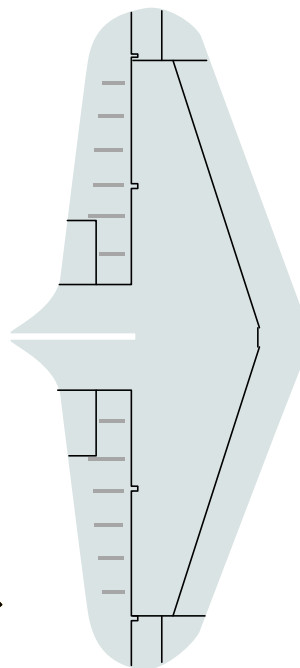
## FUSELAGE

## RADIATOR



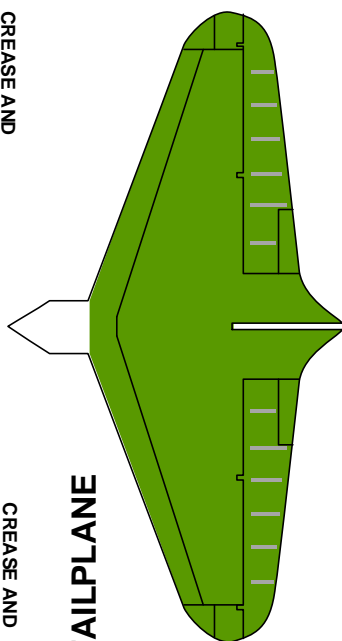


**OUTSIDE  
CONE**

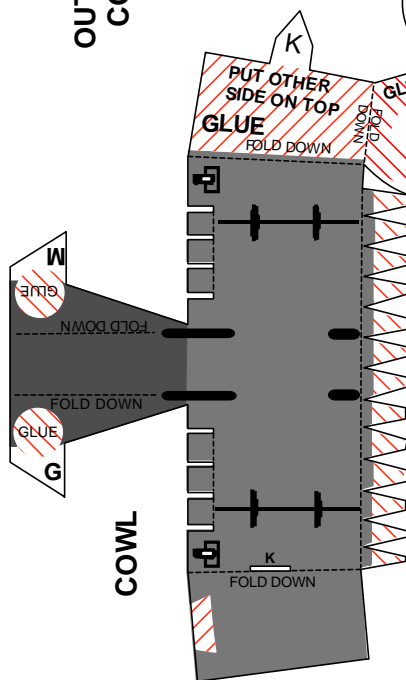


CREASE AND  
FOLD UNDER

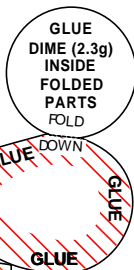
CREASE AND  
FOLD UNDER



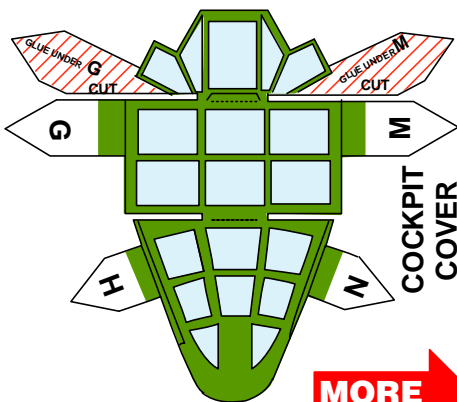
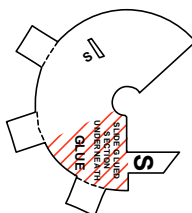
**TAILPLANE**



**COWL**



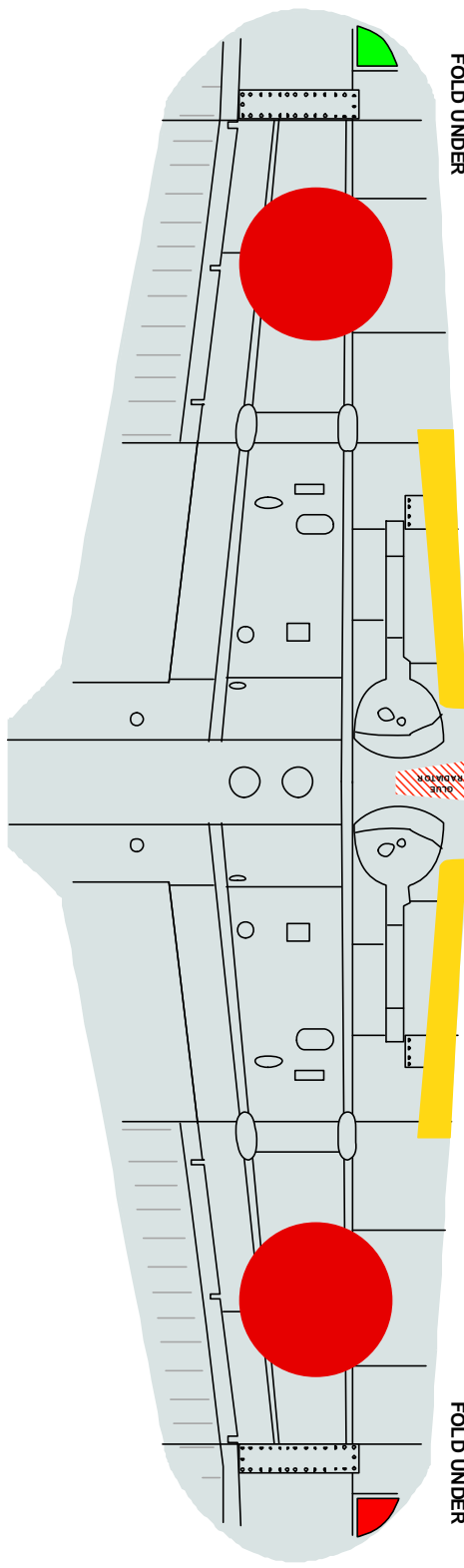
**INSIDE  
CONE**



**COCKPIT  
COVER**

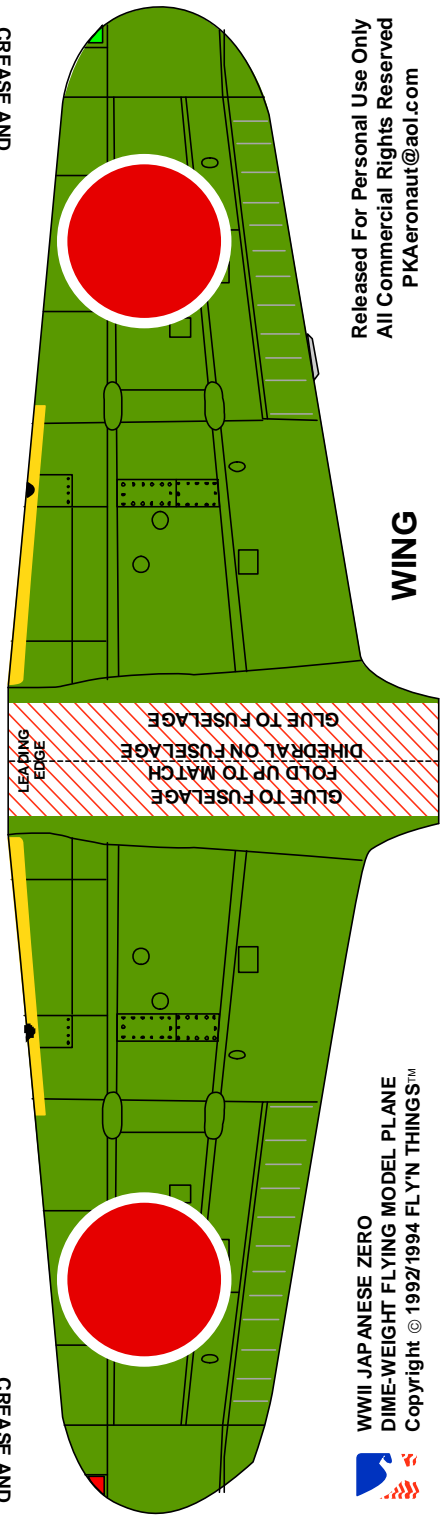
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CREASE AND  
FOLD UNDER

CREASE AND  
FOLD UNDER



WING

LEADING  
EDGE

GLUE TO FUSELAGE  
FOLD UP TO MATCH  
DIHEDRAL ON FUSELAGE  
GLUE TO FUSELAGE

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WWII JAPANESE ZERO  
DIME-WEIGHT FLYING MODEL PLANE  
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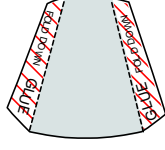


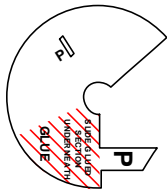
Diagram of the fuselage and tail section of the airplane. The tail section is labeled "TAILPLANE SLOT" and "GLUE". The fuselage is labeled "GLUE ENDS OF FUSELAGE TO RUBBER BAND".



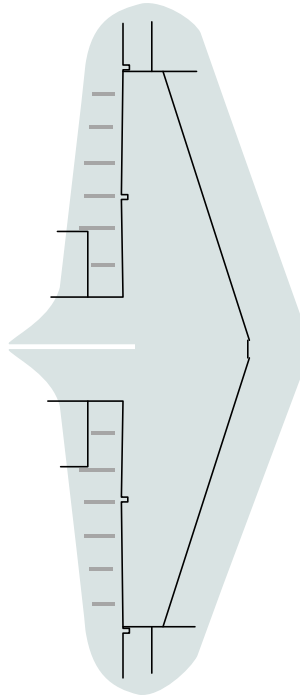
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# RADIATOR



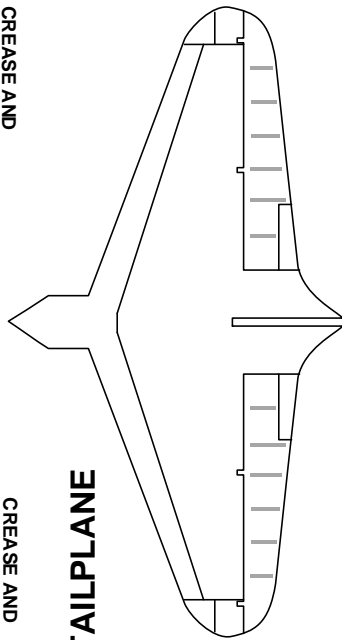


**OUTSIDE  
CONE**



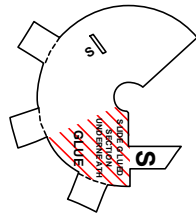
CREASE AND  
FOLD UNDER

CREASE AND  
FOLD UNDER

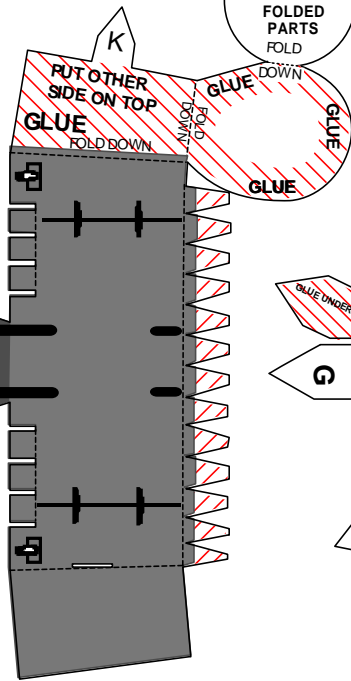


**TAILPLANE**

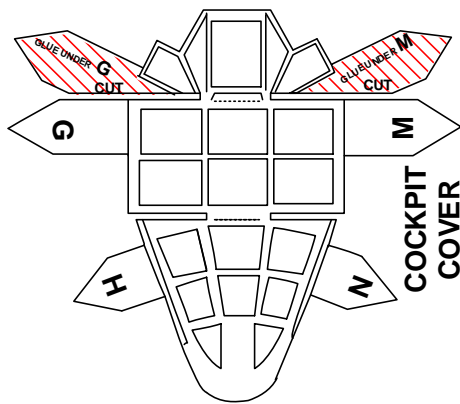
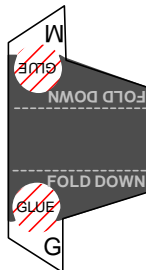
GLUE  
DIME (2.3g)  
INSIDE  
FOLDED  
PARTS  
FOLD



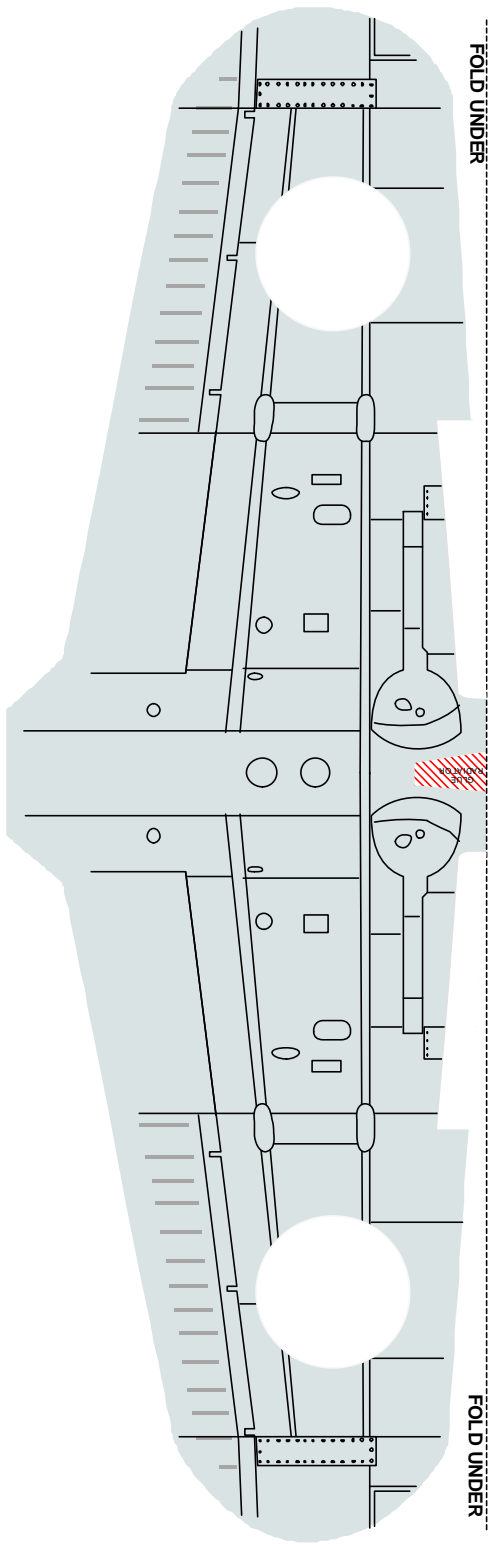
**INSIDE  
CONE**



**COWL**

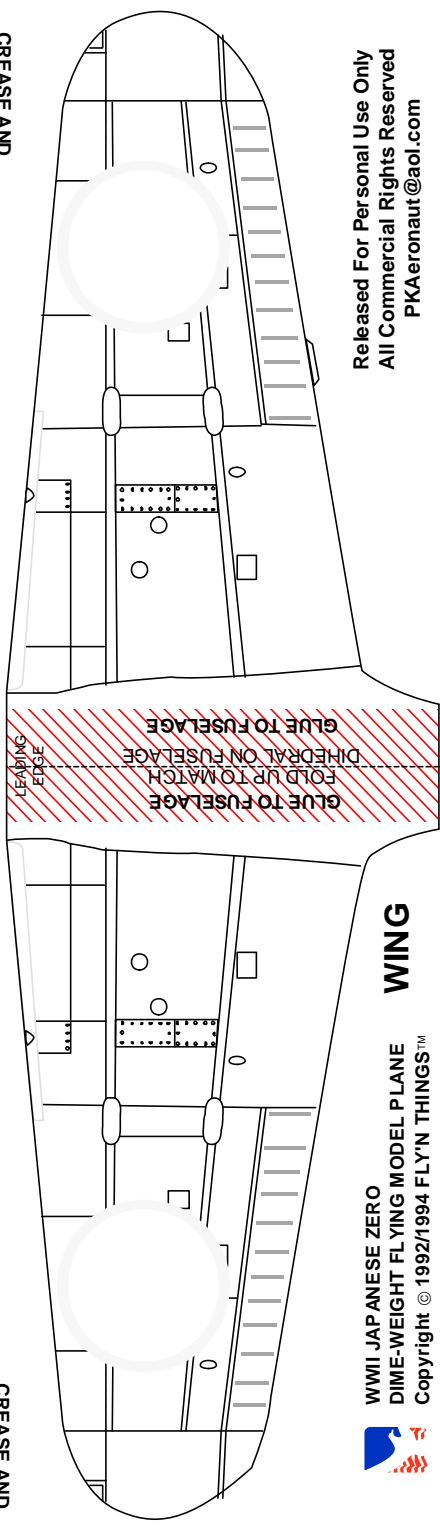


**COCKPIT  
COVER**



CREASE AND  
FOLD UNDER

CREASE AND  
FOLD UNDER



**WING**

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## Cutting Boards

The main thing is to have a flat, smooth surface to cut and assemble on. And, make sure it's thick enough so you don't cut through and ruin your work table. If you use heavy card stock, like the back of a tablet, just tape together several layers to get the thickness and rigidity needed. Plain transparent or masking tape is fine.

We generally use on one of the new self-healing 11 x 17 inch cutting mats. It gives an excellent surface to cut on and the self-healing feature leaves a smooth surface after a cut is made. It's also large enough to hold the model and its parts between building sessions. For models with small parts, tape a plastic bag to the end of your cutting board. Put ALL of the cutting scraps into this bag. If you accidentally should "throw away" a small part, just dig it out of the bag.

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## **Model Knives**

Use a model knife, even a small disposable type, with a triangular blade for cutting out slots and the parts. Or, a sharp single-edge razor blade will do. We find that the modeler's version of the surgeon's scalpel is an excellent tool. The thin, replaceable, blades give minimum edge distortion when cutting out paper parts. For easy building, please follow our instructions: Cut slots, score on the dashed lines, then cut out the parts.

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## Special Scissors

Small curved-blade scissors make it easy to cut curves, like wing tips. Here's how to minimize distortion when cutting out parts. Cut along a part's straight lines with your knife and a straight-edge guide. Then, with the scissors, make a rough cut about 1/8th inch larger than the curved portion. Trim to final size with the curved scissors.

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## Glues & Cement

The so-called “Craft” glue is a thick type of water-based “white” glue. It dries clear. You can also use a very light coat of water-based “White” glue, like Elmers® brand, for assembly. Put some of this thin glue in a plastic lid, like one from a coffee can. Let the white glue dry a bit so that it become “tacky.” Apply to parts with a toothpick. Immediately wipe off any excess with a damp paper towel.

Or, you might wish to try a model-type cement. We find that the Duco® brand of household cement works fine. It dries fast, but still has a reasonable working time letting you slide parts into final position. For any glue or cement, use small amounts to avoid warping the paper.

If your printing and “colored ink” are waterproof, like from an Laser printer, use thick craft-type “white” glue for assembly — remove any that squeezes out from the joints with a damp paper

towel or cotton swab. If you can’t find the thick “craft-type” white glue, just squirt some of the regular stuff into a plastic coffee-can lid and let it thicken a bit. Apply with a toothpick. Do make sure that you test fit all parts before assembly. A bit of error in cutting on the line, inside or outside the line, can make a big difference.

If your Zero colors and printing aren’t waterproof, as with most Ink-Jet printers, we find that the Duco Brand of Household Cement—it’s much like model-airplane glue—works very well. It’s a bit thinner than regular model cement, giving a bit of “working” time to slide the parts into final position. The solvent in “Duco” DISSOLVES laser-printed images, so if you printed with a laser, use care! **DO NOT USE THE “INSTANT” or so-called CRAZY GLUES!!**

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## **Tools**

And excellent source of small tools for modelers is:

**Micro Mark**

**340 Snyder Avenue**

**Berkeley Heights, NJ 07922-1595**

**Send \$1 For Color-Illustrated Catalog.**

**1 (800) 225-1066**

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## Printing Problems

The Adobe Acrobat™ system of readers supports IBM-PC type computers running DOS and Windows. FREE readers are also available for the Apple Macintosh and Sun "SPARC" Workstations running under the Unix operating system. If your software source does not have the correct reader for your system, they can be obtained via Internet from: <ftp.adobe.com>

Printing is supported for raster-type printers, like an HP LaserJet, and Postscript printers. Printing may be done in either monochrome or color, depending on the printer you have available. Please note that some of the Adobe Readers, like Version 1.0 for DOS, may not support color printing, or only support color printers in the monochrome print mode.

When printing to any inkjet printer, make sure you use a print buffer so the printer receives a constant stream of data. This prevents minor gaps and blurs if the printer has to wait for more data. This is particularly important for color inkjet printers.

For Windows printing, make sure to use the Print Manager for print buffering. If you have difficulty printing under Windows, make sure that you have sufficient free disk space for the buffer files created by the Windows Print Manager. As an example, each printed color page requires about 500-kbytes of disk space — during image processing, the disk requirements can be greater than 4 Mbytes for temporary files.

## Not Enough Disk Space

In extreme cases, not enough disk space shows as either a terminated print -- the program appears to print, but nothing happens -- or error messages like "Insufficient Memory" or "Not Enough Memory To Print." Some versions of Adobe Acrobat can give a General Protection Fault in "module unknown" and terminate while attempting to print. Free up space on your hard drive by deleting unused files or programs.

Or, try printing a single page at a time. Remember, processing color images takes a great deal of disk space for the temporary files. You may need to have 10-12 Mbytes of free disk space for the temporary files and the Print-Manager's, or print buffer's, image files for a non-Postscript printer.

## Extremely "Thin" Lines

The illustrations are drawn with "thin" lines to fit a wide range of printers. The Adobe Acrobat print routines set these thin, or hairlines, to the precision of the printer you use. Lines printed on a 300-dpi laser printer will be one "dot" wide. Printing the same image on a 600-dpi printer may give extremely thin lines; 1/600th of an inch wide. If you use a high-resolution printer, try setting your printer to a lower resolution — this automatically widens the thin lines.

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