FLY'N THINGS™

CUT, FOLD & FLY

MiniModel™ FLYING PAPER AIRPLANES

WWII - The Pacific

Flying Tigers P-40	Japanese Achi Val
Japanese Zero	USN SBD-6 Dauntless
USN F6F Hellcat	Japanese Nakajima Oscar

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Introducing The MiniModel™ 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 know 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 Achi "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 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).

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. Immeditely wipe Off any excess glue 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 for display, like a Mobile, but they fly, too. For flying, add a nose weight. Start with a strip of card stock about 3/8-inch wide by about 8-1/2" long. Roll up tightly and place in the nose of the fuselage. If the model dives, cut about 1/2 inch off the strip and try again. If the model stalls, add a bit more paper strip. How much paper strip depends on the card stock used. *HINT!* Experiment with a radial-engine model. Complete the nose cowling but don't cement in place until after your test flights. 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 Or, try sticking a few straight pins into the nose cone.
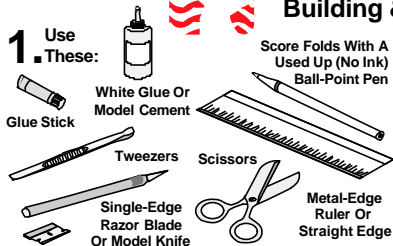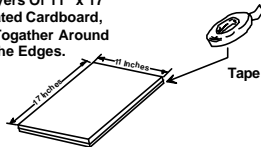
Build, Fly and above all, HAVE FUN!

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FLY'N THINGS™

MiniModel™ Paper Models
Building & Flying Instructions

1. Use These:

White Glue Or Model Cement

Glue Stick

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

Tweezers

Scissors

Single-Edge Razor Blade Or Model Knife

Metal-Edge Ruler Or Straight Edge

2. AND, Tape And A Cutting Board:

Two Layers Of 11" x 17" Corregated Cardboard, Taped Togather Around All Of The Edges.

11 inches

17 inches

Tape

Click On Individual Parts For More Information

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MiniModel™ WWII Flying Paper Models

What You'll Need

For the all models you'll need a few 8-1/2" x 11" sheets of white, 110-pound Index Stock. Most office supply stores carry it. One brand is Wausau Paper's Exact® Index. If you can't find the index stock, 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. For true waterproof color-inkjet printing, use our special paper — please see the Order Blank.

General Printing Information

The **FLY'N THINGS™** MiniModel™ 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 index 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 index stock, print the image on thin paper with a smooth finish, like Hammermill Laser Print. Then, laminate the paper to the index 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 index stock.

Printing Setup

To print these samples, setup your DEFAULT Windows Printer for LANDSCAPE 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 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 MiniModel™ WWII Models

First, print out the instruction sheets on 8-1/2" 11" paper with the printer set to "LANDSCAPE" 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.

Each MiniModel™ prints on a single sheet of 8-1/2" x 11" index stock. Two versions of each MiniModel™ are included; full color and monochrome if you do not have a color printer. If you print the monochrome (B&W) version of a model, the undersides and fuselage parts already have a gray "camouflage" color. Print on white paper and all you'll need to color is the top side of the model.

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

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Coloring Your MiniModels™

Use the color models as a guide. For example, 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 gray. The INSIGNIA on the WINGS and FUSELAGE is a deep red. Insignia on the sides of the fuselage and the top of the wing are surrounded by a white band. The FUSELAGE and top of the 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 your MiniModel™ 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 index stock. Most index stock comes in a wide range of colors. Print both sheets on dark-green index stock and second set on light-blue index 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.

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 index 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.

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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 by 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 printed 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!!**

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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> **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 FLY'N THINGS™ Paper Models

Prices Effective 1 March 1995
Prices Subject To Change Without Notice
Print Out This Form

CASH INVOICE: (Please Print Clearly)

Name: _____

Address: _____

_____

_____

WWII The Pacific - Printed Books
Six Printed, Full-Color MiniModel™ Paper Models   **US$7.50**
And Instruction booklet

Six Printed, Full-Color Dime-Weight Models   **US$16.50**
And Instruction booklet

WWII The Pacific - Electronic PDF Book
Six Color & Monochrome MiniModel™ Paper Models   **US$7.50**
And Instruction booklet sheets. (3-1/2" HD IBM Format Disks)

Six Color & Monochrome Dime-Weight Models   **US$16.50**
And Instruction booklet sheets. (3-1/2" HD IBM Format Disks)

Special Ink-Jet Paper & Card Stock
Card Stock: Ten(10) 8-1/2" x 11" Sheets (For Dime-Weight Models)   **US$7.50**
Paper: Ten(10) 8-1/2" x 11" Sheets (For MiniModels™)   **US$5.00**

U.S.A. & Canada Shipping & Handling PER ORDER   **US$3.50**
(For Overseas Orders, Please Contact Us For Costs)

SAMPLE Pack - Three 8-1/2" x 11" Sheets of Card Stock & Sample Paper   US$5.00 POSTPAID

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 _____

PAYMENT & 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

A Listing of known US Suppliers of paper-model airplanes. If you know of other sources, please E-Mail me (**PKAeronaut@aol.com**) 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)

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 4 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.

> The above *may* have been replaced by **Moshe Lemer:** **>Check Out BEFORE Sending Money!**

Fiddlers Green
1960 West Ray Road 1C-2D
Chandler, AZ 85224

US sales of the UK's Fiddlers Green post-card size models (about 1:60 scale). Advertising an 8-model set of the NEW, more detailed, WWI aircraft; includes Fokker Dr1, Nieuport 17, Sopwith Pup, etc. Set of 8 is $12 postpaid.

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

1/50 scale (Wilelmshaven style): Israeli Appachi, Israeli F16D, Israeli TA-4, Skyhawk, F117A, A6M2 Zero, Space Shuttle Discovery, Syrian MiG-23 with Israeli markings, Kfir-C2. Send checks, $10 each postpaid.(Update from: XErikMoo@aol.com)

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. This 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. The *FlyPaper* is no longer be published. Write for current status; old issues ARE still available.

>H & B Precision Card Models
>2026 Springboro
>Vienna, Va. 22181-2917
>Phone/Fax: (703) 281-0813

Wilhelmshaven (Germany) line of Merchant Ships, Battle Ships and Aircraft (WWI thru Present). Catalog $2.00. **>>**New Address 5/22/95 per MylesM1932@aol.com **>>**Telephone number may have changed, too.

Robert Kaelin
1099 Ostrander Ave.
Riverhead, NY 11901

Currently advertising a small line of 1/24th scale card models. Includes private planes; Cub, Taylorcraft, Aeronca Champ & C3 for $7.00 each postpaid. Also, a Focke-Wulf Stieglitz biplane for $9.

Myles K. Mandell
1770 Yardley Circle
Centerville, OH 45459
MylesM1932@aol.com

Myles is a paper-model collector and a source of English Miniature Card models called "Micromodels". There are over 100 different models from Architecture, Railroad, Airplanes etc. These were last published in 1955. Original, "collectables",

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cost from US$5.00 to US$120.00. Myles can also supply color copies on card stock. Cost from $5.00 to $20.00 — inquire about specific models.

The new catalog costs US$4.00, including a coupon good for a $4.00 discount on the first order.

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.

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).

Paper Warbirds
3786 Brookside Drive
Marion, IA 52302

A line of large-size (16-24 inch span) WWII Warbirds. Printed in black outline form on colored paper (Royal Blue, Light Blue, Ivory or White). Add your own decorations, insignia, etc. Models include the usual P-51 and Bf-109 and seldom-seen bombers, including the B-17, B-25 and B-29. $9.50 each - the advertisement in May 1995 Model Builder doesn't specify shipping charges, so I assume it's postpaid.

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.

>>5/17/95 Due to illness, business is on temporary hold. Please inquire before ordering the catalog — enclosing a self-addressed post card with your inquiry would be a nice idea.

Tiny Planes
15 Lobo Canyon Camp
Grants, NM 87020

Advertising a line of 2-inch wingspan flying paper models. Complete set of six kits is $7.98, postpaid. (Flying Models Magazine, Jan 1995)

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.

❏ Table Of Contents

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

InterNet E-Mail: pkaeronaut@aol.com

(All Models Include Pictorial Instructions, and are flying models unless noted) This is the "ONLY" catalog.

The Prices For The **FLY'N THINGS™** Paper Planes are:

WWII The Pacific
Six Dime-Weight Model Pack   **US$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.

Six Dime-Weight Models Acrobat™ PDF
**   Disk Version**   **US$16.50**

Six   MiniModel™ Book Pack

US$7.50

> Full-Color Printing;
> Assembly Booklet and
> Zero, Flying Tigers P-40, F6F Hellcat,
> Dauntless, Achi Val and Nakajima Oscar.
> Wingspan Approximately 4-1/2 Inches.

Six MiniModel™ Models Acrobat™ PDF
**   Disk Version**   **US$7.50**

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

> Full-Color Printing;
> Large F-117A   US$4.98
> F-117A Postcard   US$1.97

Shipping & Handling Charges:

> **Per Order:**   **US$3.50**

❑ **Table Of Contents**

New Software For The CAD/Illustration Program User:

PCX-To-DXF Conversion — Converts monochrome PCX scanned images into an AutoCAD DXF file. "Dots" of the original PCX image are converted into DXF raster LINES. Shareware Program: **PCXTODXF.ZIP** for Windows 3.x.

PCX-To-DXF Program Prices:
E-Mail Registration   **US$20.00.**
Mailed Disk: **US$25.00**
Add US$3.50 Shipping & Handling PER ORDER.

We are also in process of restoring the first two paper-airplanes books published by Wallace Rigby during the 1940s. A sample version in PDF format will be released in the next few months. Complete editions, including the color and black-and-white models are planned for fall release.

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.

Internet
Freeware and Shareware trial versions of current programs and PDF Electronic Books are now available on Internet from the CICA Archives at Indiana University and the various CICA "Mirror" Sites.

Hostname: ftp.cica.indiana.edu

World   Wide   Web   (WWW):   http://
w w w . c i c a . i n d i a n a . e d u /
WWW CICA Index Front-End:
http://www.fagg.uni-lj.si/cica.html
WWW CICA Upload Updates:
h t t p : / / w w w . a c s u . b u f f a l o . e d u / ~ c m j
gopher: gopher.cica.indiana.edu

MiniModel™ FLYING WWII PAPER PLANES

1. Use These:

White Glue Or Model Cement

Glue Stick

Tweezers

Scissors

Single-Edge Razor Blade Or Model Knife

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

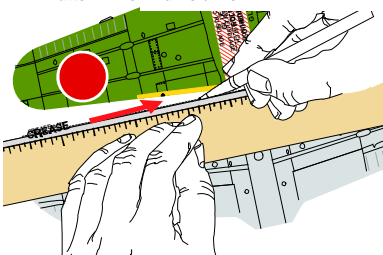Metal-Edge Ruler Or Straight Edge
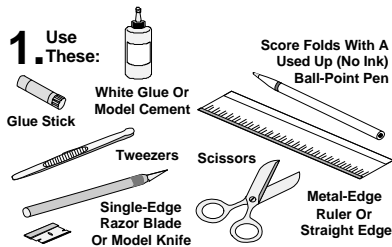
Only Simple Tools Needed. Most, You Already Have Around The House. Simple Flap Construction.

Great For All Modelers, Ages 10 And Up. Younger Modelers May Need Adult Help.

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

A great Display, Or Hang All Six As A Mobile.

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

STEP-BY-STEP INSTRUCTIONS

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

Slots For Assembly Tabs

Red-Hatched Glue Areas

Dashed Lines To Be Scored And Folded Up Or Down.
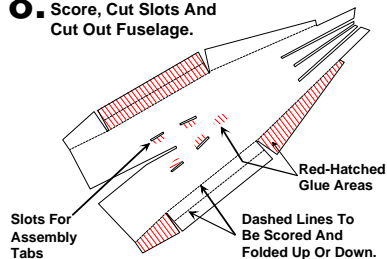
12. Fold Scored Creases Up Or Down As Marked On Dashed Lines.

M   N

H

G
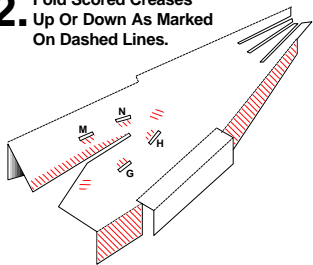
13. Check The Fit Of Bottom Tabs. Apply A Light Coat Of Glue To The Hatched Area. One Tab At A Time. Hold Until Completely Dry.

1.

2.

3.

HINT! Start With The Rear Bottom Panel First. Do Center Next, And Finish With Top.

Top Flap

PRINTED IN U.S.A.

14. Glue Hatched Area At the Top, Front, Of Fuselage. Line Up Fuselage Markings. Hold Until Completely Dry.

Top Flap
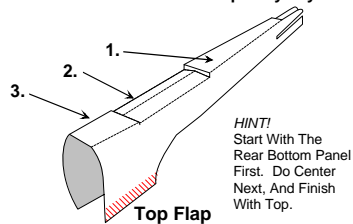
Completed Fuselage
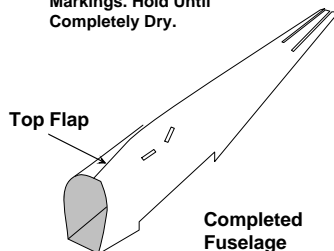
FLY'N THINGS™

CUT, FOLD & FLY

MiniModel™ FLYING PAPER AIRPLANES
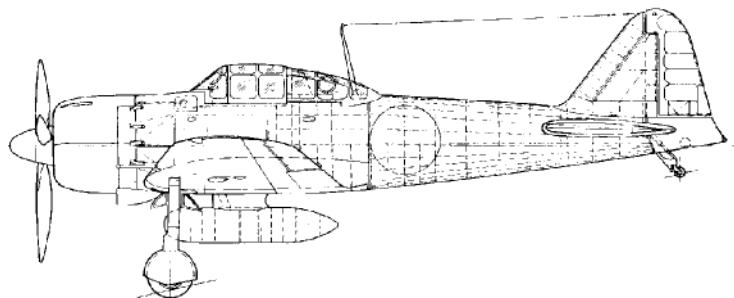
Japanese Army Zero

WWII - The Pacific

Flying Tigers P-40   Japanese Achi Val
Japanese Zero   USN SBD-6 Dauntless
USN F6F Hellcat   Japanese Nakajima Oscar

MiniModel™ Flyers In Full Color With Instruction Booklet. US$10.00 ($7.50 + $3.50 S&H Per Order) Cash Or Money Orders Only; No checks, PLEASE.

Phil Koopman
2805 Hunt Club Lane
Orlando, FL 32826-3909 U.S.A.
INTERNET: PKAeronaut@aol.com

MORE ➡

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 these models was developed by Wallis Rigby, an Englishman. He was internationally know 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 you hand. To by 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 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-gluing 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.
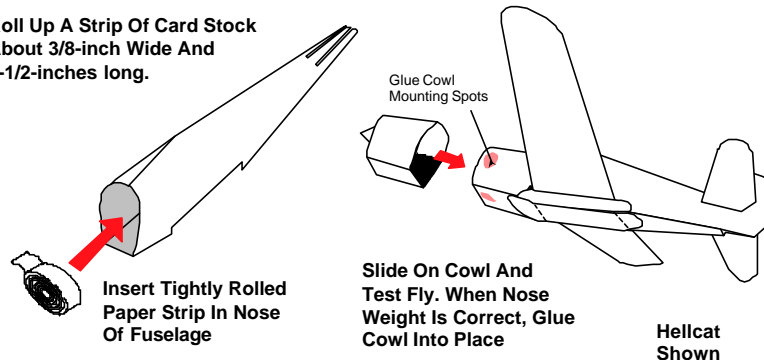
For a more realistic model, color the cut edges of all parts before assembly. Use a colored pencil around the edges. During Assembly, after cutting off the tabs on the fuselage, color the cut edges of the tab with colored pencils of the same color as the fuselage. Our last suggestion is the nose weight.

Our MiniModels™ were designed for either display or flying. Start with a strip of card stock about 3/8-inch wide and 8-1/2 inches long. Roll up tightly and place inside the nose of the fuselage. Slip on the cowl and test fly. If the model dives, cut off about 1-inch of the strip and try again. If the model stalls, add more strip. When the model is balanced, glue on the cowling. 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 first.

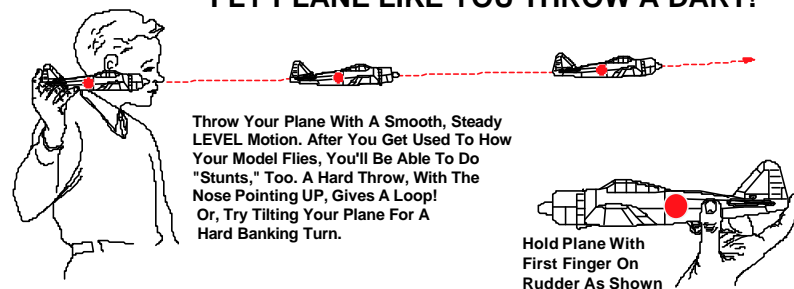**Build, Fly and above all, HAVE FUN!**
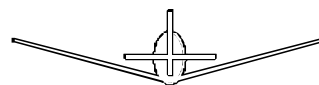**PKAeronaut@aol.com**

ADDING A PAPER NOSE WEIGHT

Roll Up A Strip Of Card Stock About 3/8-inch Wide And 8-1/2-inches long.

Glue Cowl Mounting Spots

Insert Tightly Rolled Paper Strip In Nose Of Fuselage

Slide On Cowl And Test Fly. When Nose Weight Is Correct, Glue Cowl Into Place

Hellcat Shown

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.

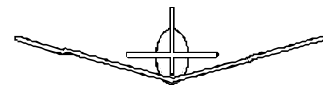**Hold Plane With First Finger On Rudder As Shown**

ADJUSTING YOUR PLANE FOR FLIGHT

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

If Your Plane Hits Something And Dents The Wing, Smooth Out Dent With Your Fingers. Keep Wings FLAT - DO NOT Curve Or Bend.
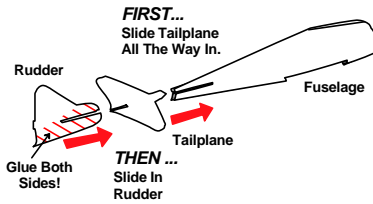
The Rudder Must Be Straight - NOT Curved Or Twisted. It Must Be Vertical And In Line With The Fuselage.
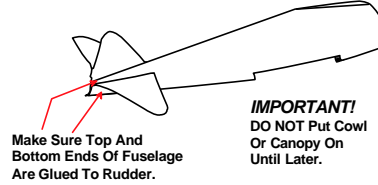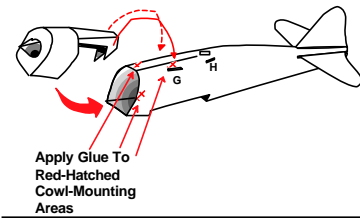
CORRECT **WRONG!**
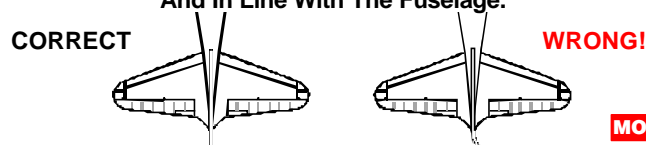
MORE ➡

FINAL ASSEMBLY JAPANESE ZERO

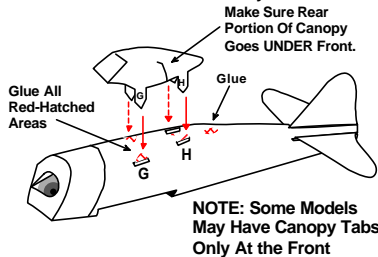**25.** Coat Red-Hatched Area Of Rudder With Glue. Slide Tailplane All Of The Way In. Then, Slide Rudder In.

FIRST...
Slide Tailplane All The Way In.

Rudder

THEN ...
Slide In Rudder

Glue Both Sides!

Tailplane

Fuselage

26. Glue Ends Of Fuselage To Rudder. Check Vertical And Horizontal Alignment Of Rudder And Tailplane. Hold Until Glue Dries.
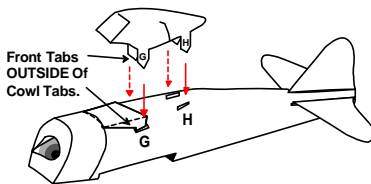
Make Sure Top And Bottom Ends Of Fuselage Are Glued To Rudder.

IMPORTANT!
DO NOT Put Cowl Or Canopy On Until Later.

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

Apply Glue To Red-Hatched Cowl-Mounting Areas

G
H

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

Make Sure Rear Portion Of Canopy Goes UNDER Front.

Glue All Red-Hatched Areas

Glue

G
H

NOTE: Some Models May Have Canopy Tabs Only At the Front

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

Front Tabs OUTSIDE Of Cowl Tabs.

G
H

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

Bend Wing At Dashed Line To Match Bottom Of Fuselage Angle. Use Plenty Of Glue!

Bend Up Along Scored Dashed Line For Dihedral
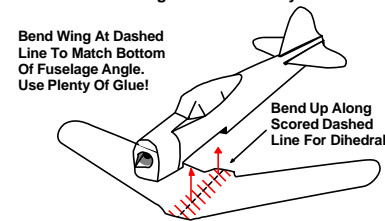
ADDING FINAL DETAILS

**31.** Roll Air Scoop And Fold Down On Scored, Dashed Lines. Then, Glue Scoop To Bottom Of Plane.
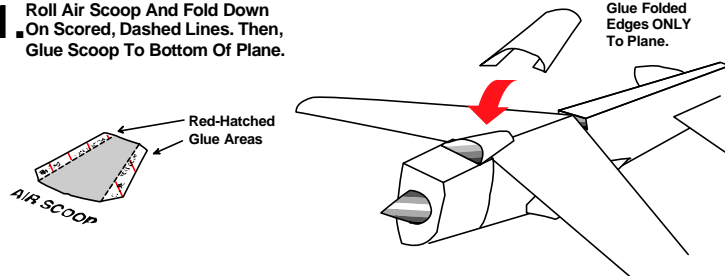
IMPORTANT!
Glue Folded Edges ONLY To Plane.

Red-Hatched Glue Areas

AIR SCOOP

MiniModel™ Paper Models
Building & Flying Instructions

1. Use These:

Glue Stick

White Glue Or Model Cement

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

Tweezers

Scissors

Single-Edge Razor Blade Or Model Knife

Metal-Edge Ruler Or Straight Edge

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

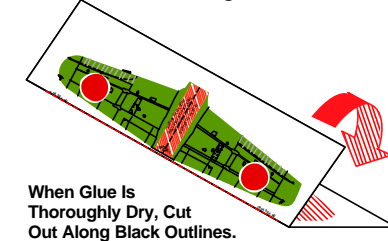Two Layers Of 11" x 17" Corrugated Cardboard, Taped Together Around All Of The Edges.
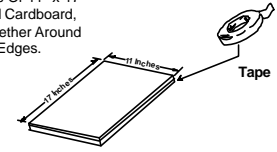
11 Inches

Tape

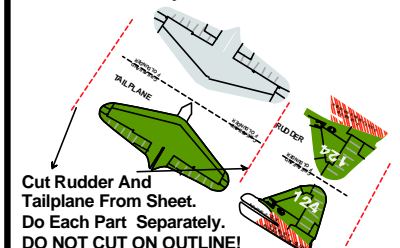**3.** Score Along Dotted Line Of Wing With The Used Ball-Point Pen Or A Smooth-Edge Butter Knife And Fold Down.
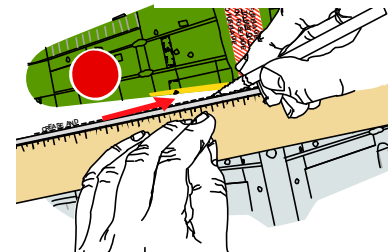
4. With Printed Side Down, Coat ONE Inside Surface With The Glue Stick.

Make Sure That You Cover The Complete Wing Area With A Thin Coat From The Glue Stick.
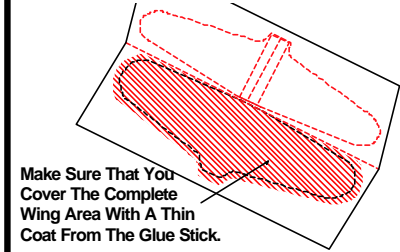
5. Place Wing On A Flat Surface, Fold Down And Smooth Out Glue. Weight Down So That The Glued Wing Dries Flat.

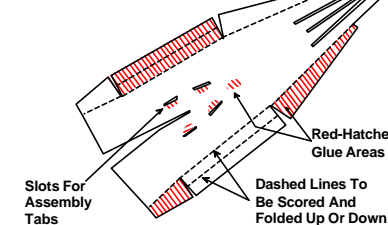When Glue Is Thoroughly Dry, Cut Out Along Black Outlines.

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

TAILPLANE

RUDDER

Cut Rudder And Tailplane From Sheet. Do Each Part Separately. DO NOT CUT ON OUTLINE!

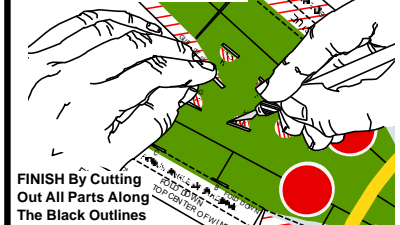## CUT SLOTS & CUTOUT PARTS

MORE ➡

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

Slots For Assembly Tabs

Red-Hatched Glue Areas

Dashed Lines To Be Scored And Folded Up Or Down.

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

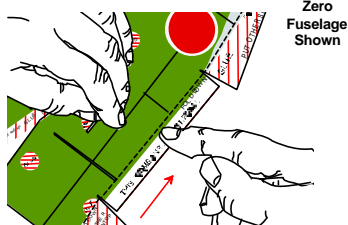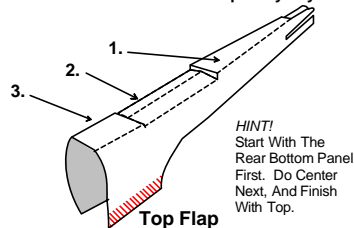FINISH By Cutting Out All Parts Along The Black Outlines

RADIAL-ENGINE FUSELAGE ASSEMBLY

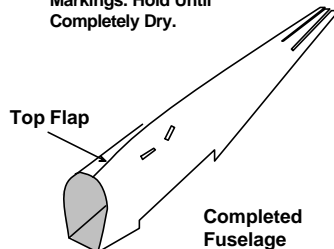**9.** Fold Scored Creases Up Or Down As Marked On Dashed Lines.
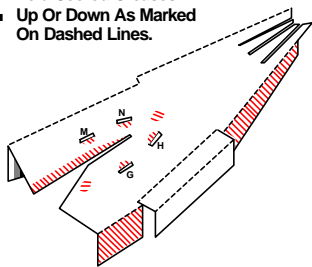
10. Crease Folds With Your Finger Tip Or The Side Of A Smooth Pen.

Zero Fuselage Shown

11. Check The Fit Of Bottom Tabs. Apply A Light Coat Of Glue To The Hatched Area. One Tab At A Time. Hold Until Completely Dry.
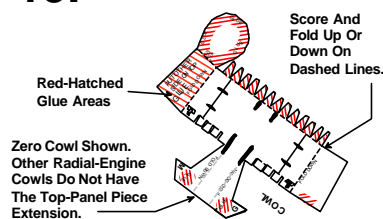
1.
2.
3.

HINT! Start With The Rear Bottom Panel First. Do Center Next, And Finish With Top.

Top Flap

12. Glue Hatched Area At the Top, Front, Of Fuselage. Line Up Fuselage Markings. Hold Until Completely Dry.

Top Flap

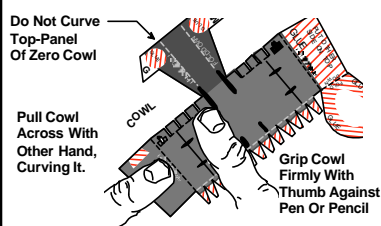**Completed Fuselage**

RADIAL-ENGINE COWL ASSEMBLY

13. Score On Dashed Lines And Cut Out Cowl.

Score And Fold Up Or Down On Dashed Lines.

Red-Hatched Glue Areas

Zero Cowl Shown. Other Radial-Engine Cowls Do Not Have The Top-Panel Piece Extension.

COWL

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

Do Not Curve Top-Panel Of Zero Cowl

Pull Cowl Across With Other Hand, Curving It.

COWL

Grip Cowl Firmly With Thumb Against Pen Or Pencil

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

PRINTED SIDE DOWN

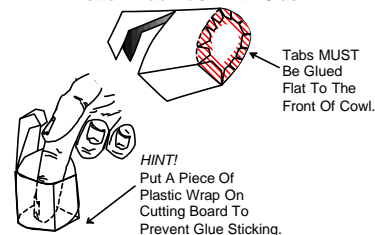When Glued Dime Is Dry, Fold Along Dashed Lines As Shown By Arrows.

IMPORTANT! Dime Must Be Firmly Glued Into Cowl.
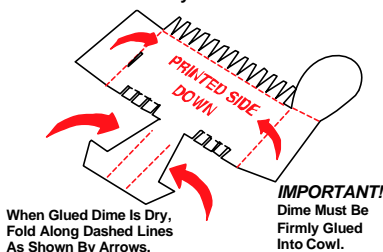
16. After Cowl Is Curved And Folded, Shape Around Cowl Front.

Front Tabs

IMPORTANT! Make Sure The Cowl Front Is INSIDE The Front Tabs.

PRINTED SIDE DOWN

Cowl Front
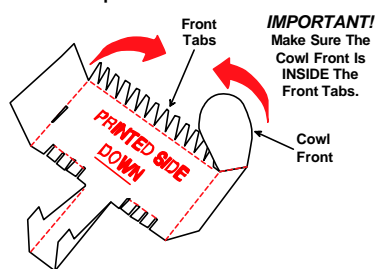
17. Fole Over Flap, And Glue To Bottom Of Cowl. Align And Hold Until Dry. Glue Front Of Cowl And Fold Down Tabs.

Curve Cowl Around Front

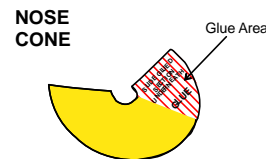Glue Cowl Front And Fold Down Tabs.

Fold Over Flap And Glue To Bottom Of Cowl.
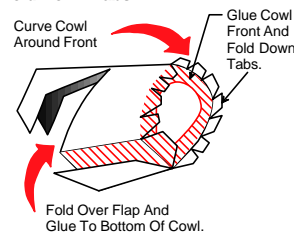
18. Check To Make Sure All Tabs Are Glued Flat To The Front Of Cowl. Reglue If Needed. Then, Trim The Bottom Tab Flush With Side.

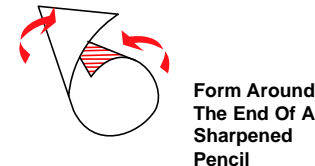Tabs MUST Be Glued Flat To The Front Of Cowl.

HINT! Put A Piece Of Plastic Wrap On Cutting Board To Prevent Glue Sticking.

NOSE CONE ASSEMBLY

19. Cut Out The Nose Cone Along the Outline.

NOSE CONE

Glue Area

20. Curve Over The End Of A Pencil So the Hatched Glue Area Is On The Inside.

Form Around The End Of A Sharpened Pencil

21. Apply Glue To Red-Hatched Area. Curve The Outside Around. Hold Until Dry.

21A.

21B.

Completed Nose cone
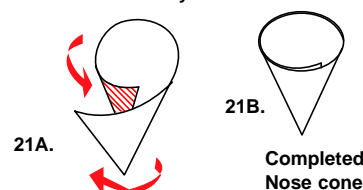
22. Glue Nose Cone To The Center Of The Cowl Trim As Marked.

Center On Cowl Trim Where Marked

BUBBLE CANOPY ASSEMBLY

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

Glue Areas

Score Lines

IMPORTANT! Cut Out All Slots. Score On All Dashed Lines Where Marked.

Zero Canopy Shown
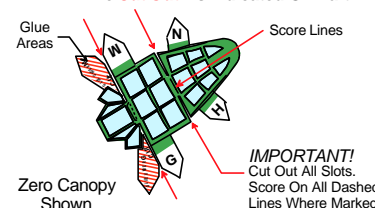
24. ROLL... Do Not Fold Top Of Canopy. Fold Only On The Dashed Lines.

Roll Top

24A.

Fold ONLY On Dashed Linles

Glue Red-Hatched Areas. Then, Slide Front Tabs Under Middle Tabs. Hold Until Dry.

24B.

MORE

WING

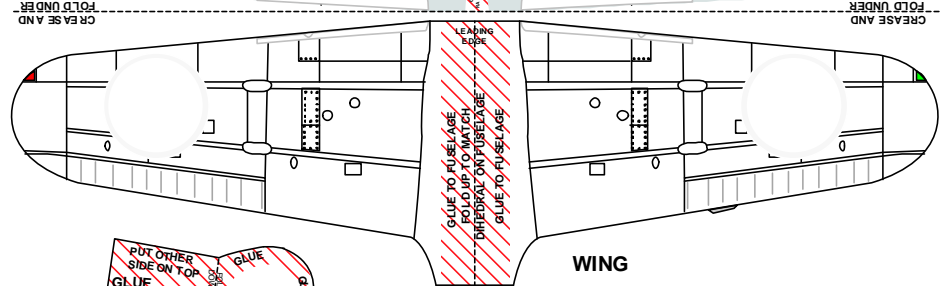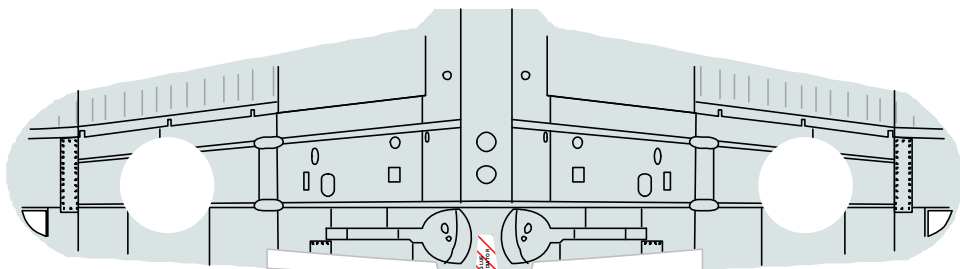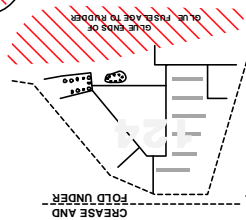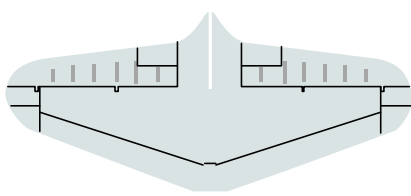CREASE AND FOLD UNDER

CREASE AND FOLD UNDER

LEADING EDGE

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

PUT OTHER SIDE ON TOP
GLUE
GLUE
FOLD DOWN
GLUE

W
FOLD DOWN
FOLD DOWN
G

COWL

FOLD DOWN

RUDDER

GLUE ENDS OF GLUE FUSELAGE TO RUDDER

124

CREASE AND FOLD UNDER
FOLD UNDER

TAILPLANE

CREASE AND FOLD UNDER
FOLD UNDER

CREASE AND FOLD UNDER
FOLD UNDER

124

TAILPLANE SLOT

GLUE
GLUE ENDS OF FUSELAGE TO RUDDER
GLUE

WWII JAPANESE ZERO
MiniModel™ FLYING PAPER MODEL PLANE
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RADIATOR

GLUE

FUSELAGE

COCKPIT COVER

G
H

N
M

PUT OTHER SIDE ON TOP
GLUE

GLUE TO TOP CENTER OF WING
FOLD DOWN
THIS FORMS ANGLE OF DIHEDRAL
FOLD DOWN

FOLD DOWN
PUT OTHER SIDE ON TOP

GLUE

TAILPLANE SLOT
SLOT FOR RUDDER

GLUE
G
H
M
GLUE
GLUE

TAILPLANE SLOT

FOLD DOWN
JAPANESE A6M5 ZERO
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FOLD DOWN PUT OTHER SIDE ON TOP
FOLD DOWN
GLUE
GLUE
GLUE

COWL TRIM

GLUE NOSE CONE HERE

OUTSIDE CONE

SLIDE GLUED SECTION UNDERNEATH
GLUE

FOLD UNDER
CREASE AND

FOLD UNDER
CREASE AND

LEADING EDGE

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

WING

PUT OTHER SIDE ON TOP
GLUE
GLUE
GLUE
FOLD DOWN
GLUE
GLUE

W
GLUE
FOLD DOWN
FOLD DOWN
GLUE
G
FOLD DOWN

COWL

GLUE FUSELAGE TO RUDDER
GLUE ENDS OF

TAILPLANE SLOT
GLUE
GLUE
GLUE ENDS OF
FUSELAGE TO RUDDER

RUDDER

FOLD UNDER
CREASE AND

TAILPLANE

FOLD UNDER
CREASE AND

FOLD UNDER

G
H
CUT
CUT
N
M

COCKPIT COVER

FOLD DOWN
GLUE

RADIATOR

WWII JAPANESE ZERO
MiniModel™ FLYING PAPER MODEL PLANE
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FUSELAGE

GLUE TO TOP CENTER OF WING
THIS FORMS ANGLE OF DIHEDRAL
FOLD DOWN
GLUE
FOLD DOWN
PUT OTHER SIDE ON TOP
GLUE
FOLD DOWN
PUT OTHER SIDE ON TOP
GLUE
TAILPLANE SLOT
SLOT FOR RUDDER
H
G
GLUE
N
M
GLUE
GLUE
GLUE

COWL TRIM

TAILPLANE SLOT
FOLD DOWN
JAPANESE A6M2 ZERO
Copyright © 1993 Fly'N Things

OUTSIDE CONE

GLUE NOSE CONE

SLIDE GLUED
SECTION
UNDERNEATH
GLUE

FOLD DOWN PUT OTHER SIDE ON TOP
FOLD DOWN
GLUE
GLUE
GLUE

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.

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.

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 water-proof, 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 MiniModel™ 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!!**

Tools

And excellent source of small tools for modelers is:

Micro Mark

340 Snyder Avenue

Berkeley Heights, NJ 07922-1595

Send $1 For Illustrated Catalog.

1 (800) 225-1066

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. Plese 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 unkown" 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.

Tweezers

A pair of small tweezers is a big help in handling the small parts of the your MiniModels™. Any type of small tweezer will work, but you may find that so-called "stamp tongs," with the flat tips, are a big help.

When gluing any of the flaps, put the glue on the red-hatched area. Postion the parts with your fingers and then "clamp" in place for a few seconds with your tweezers. This insures that the flap's glue bond is solid, and not bridged with glue.