# PLEASE READ FIRST !!

Before you start construction of your model, study the plan and construction procedure carefully so you have a complete understanding of the step - by - step method of building this airplane. Careful attention to detail, patience and quality workmanship will insure a beautiful model Remember - work slowly and carefully at all times. This multi-purpose model has been designed to give you a variety of building choices. You can build the model for static display on table top with landing gear in position. You can build the model for static display in flying mode without landing gear (simulated retract position) or you can build the model for flying either as a hand launch or catapault launched glider. You must decide how you want to build your model now and then proceed accordingly. Choose a flat building board and always cover plan with a clear kitchen film to prevent parts from sticking to plan.

# ADHESIVES YOU CAN USE

Your model can be built using many different products such as white glue, epoxy, regular model cements or cyanoacrylate (CA) glues. You may choose to use any one or a variety of these adhesives for your model. For example: white glue will not hold plastic parts together or on the model but any of the others will. WARNING be very careful when using CA glues and read the manufacturers instructions completely.

## PARTS IN THE KIT

We strive to supply quality materials in all our kits. All parts are inspected with regard to the function they serve. If an imperfection is spotted in a scrap area of die cut sheets, plastic parts, etc. and doesn't affect the actual part, the sheet is considered acceptable. Also, when wooden parts are cut, natural internal stresses can be relieved. These relieved stresses may allow parts to bow or twist. These will readily straighten out as parts are assembled into a structural unit.

## I NEED HELP

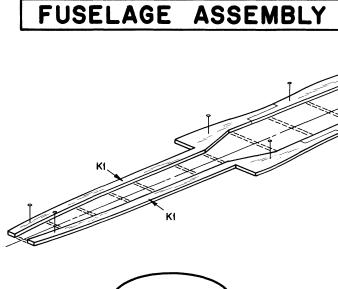
If, during the construction of your model you need a word of explanation to solve a building problem, just drop a line and we'll be glad to answer your question by return mail. We also welcome your comments or suggestions since we are intent on furnishing you the model builder with the finest scale flying model kits.

## PROUD OF YOUR MODEL

If you wish, send us a photo of your completed model. We have a photo album for display at trade shows and exhibitions. Don't forget your name, address and age on back of the photo so we can credit the

# TISSUE COVERING

Read entire note before starting. The tissue supplied in this kit allows covering of compound curves without wrinkling when moistened with water before applying to framework. Tissue shrinks as it dries to a tight, smooth surface. Use clear dope to attach tissue as follows: Apply a light coat of dope to outside edges of area to be covered. Allow to dry and sand smooth with fine sandpaper. Cut tissue to shape needed plus about 1/2" oversize on all sides. Place tissue on a flat surface and dampen with moistened cloth by dabbing. Apply a second coat of clear dope to area to be covered, then place moistened tissue over frame and wet dope. Pull tissue gently to work out wrinkles and sags. Allow to dry - trim off excess. Apply two coats of clear dope (thinned 50 - 50 with thinner) before final assembly. All parts are covered with the largest piece of tissue possible without causing wrinkles. For instance: The wing panels can be covered with one piece for the top and one piece for the bottom. The same holds true for the tail parts. The fuselage however, will require many seperate pieces. You can use your own skill and judgement to determine just how large and many pieces you will need to do the entire fuselage. Remember any area that developes wrinkles can be cut out and recovered. Check wing panels and tail surfaces for warps. If any have developed, they can be removed by holding over steam from a boiling kettle, and twisting gently in opposite direction. Check again when cool. BE CAREFUL - STEAM IS VERY HOT - DON'T BURN YOURSELF.



Cover Plan with any clear Kitchen Wrap to prevent parts from sticking to Plan. Carefully identify and remove Keel Parts #K1 and #K2 from diecut sheets. Pin in place over full size drawing gluing together where they join.

bottom of each bulkhead. Lay bulkheads #1, \*5, \*6, \*7 and \*15 over full size drawings of each and mark stringer locations. Glue bulkheads #1 to #5 in place vertically as shown. Cut out or trace off #6 bulkhead angle quide and glue #6 in place leaning Center Line backward at top as shown. Now glue remaining bulkheads #7 to #15 in place vertically.

Center Line

Three Stringer Corner

Stringer Locations

diecut sheet. Mark center lines on top and

#6 Angle Guide

# STEP 3 Identify and push bulkheads #1 to #15 from

Cut 3/32 sq. strip for center stringers to length and glue in place as shown. Note that the front section fits between #1 and #5 and rests on top of #2, #3 and #4. Also the rear piece fits between #6 and #15 and rests on top of all other bulkheads. This will now support all bulkheads and prevent accidental breaking.

3/32 sq. Stringer

TOP VIEW

Plastic Exhaust

Cut remaining 3/32 sq. stringers to length and glue in place as shown, centering over marks previously made on bulkheads. Note the three stringer corner (see Full Size \*7 Bulkhead) required from #7 to rear. This will allow attaching surfaces for tissue

3/32 sq. Stringers

3/32 sq. Stringers

NOSE BLOCK DETAIL Make Nose Block using 7/8 x 1-1/8 x 2 stock. Trace off Side View, Top View and End View from plan. Trim and sand block to

this shape and install in Final Assembly.

# Remove top of Fuselage Framework from building board. Note that the majority of

Center Line

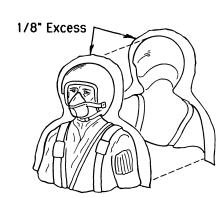
3/16 x 3/8 Filler Block

Wing Location

the top framework has been omitted from the bottom view sketches for clarity. Identify then remove bulkheads #16 to #30 from diecut sheet. Mark stringer locations on #16, #22 and #30. Glue bulkheads in place to bottom of top bulkheads as shown making SURE they are centered. Check to be sure all bulkheads are vertical and in line with top bulkheads. If model is to have Landing Gear, bend gears to shape using full size drawings. Glue Nose Gear into crease marks on #19A. Glue this assembly directly behind #19 sandwiching gear between.

3/32 sq. Stringer

Cut 3/32 sq. strip to length for center stringer and glue it in place. Again, note that it fits between #16 and #30 and rests on top of all other bulkheads. Glue #31's in place as shown. Note that #31's fit between \*22 and \*30 and they must be pushed in to follow the curve of the Keel.



# PLASTIC PARTS

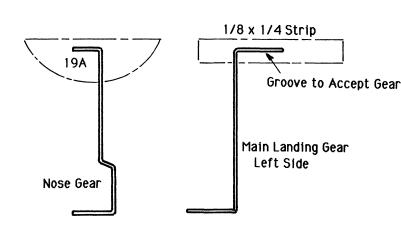
Carefully trim all Plastic Parts from sheet Leave about 1/8" excess on front and rear of pilot halves as shown. Glue two halves together and allow to dry thoroughly. Trim off excess and sand seam smooth.

Horizontal Tail Location

K2

3/32 sq. Stringers

Cut the remaining 3/32 sq. stringers to length and glue in place. Examine the sketch carefully and be sure all stringers are located properly.



# LANDING GEAR DETAIL

Landing Gear is optional. Cut and bend Main Gears and Nose Gear from .045 dia. wire. Nose Gear is installed in Step #5. Main Gears are installed after Wings have been completed. Cut a piece of 1/8 x 1/4 strip to length, groove to accept gear and then glue to front of Spar C sandwiching gear between. Repeat for other side.

543

### FINAL ASSEMBLY Cut the one 3/16 x 3/8 x 12 Filler Block in half to 6" lengths. Glue in place against side of Center Wing Rib \*33. Hold Wing in

place and trace off shape of Fuselage Side

Center Line

3/32 sq. Stringers

Three Stringer

along #31 then trim filler block to this shape. Trim filler block to shape of Wing. Carve Nose Block (see detail) and glue to front of Fuselage. Sand entire Fuselage smooth. Trial fit all parts, Wings, Tails and Plastic Parts to make sure everything fits well then cover Fuselage with tissue. The Final Assembly Sketch shows parts uncovered for clarity only. They are covered seperately and then joined. Glue Wings in place aligning carefully, see Side View and Technical Specification drawings, for exact location. Glue Plastic Air Intakes and Exhaust Nozzles in place. Glue Horizontal Tails in place at slight downward angle (when viewed from rear). Again check spec. drawings. Glue Vertical Tail in place. Check alignment of all surfaces carefully as glue dries. Make Missile Rails (see detail) and glue to Wing tips at slight downward angle, (see Side View). Cut and shape Pitot-Static Boom from 1/16" dia. Dowel using Side View for pattern. Drill hole in front of Nose Block and glue Boom in place. Model is now painted. If it is to be a flying model use only two coats of clear dope thinned 50-50 with thinner then one light spray coat of each color. If it is to be a Static Display model painted scale colors see Photo on Box Top and Plan for camoflage scheme. Assemble the two AIM - 9 Sidewinder Missiles (see detail). Paint and glue to Rails as shown. Paint Cockpit area flat black. Cut Instrument Panel from sheet and glue to back of #5. Pilot is optional, If Pilot is used glue a scrap piece of balsa across Cockpit as support. Glue Pilot in place. Trim out the Clear Plastic Canopy and paint Framework area. Glue Canopy in place. If model has been built with Landing Gear, cut Plastic Tubing to length and slip over each gear. Install wheels (not supplied). Main Wheels are 1" dia. and Nose Wheel is 3/4"dia. Cut the Landing Gear Doors from cardboard sheet, paint inside gray and outside to match camo scheme. Glue doors in place in open positions. See Side View and Tech Drawings. Cut two 20mm Guns to length from 1/16 dowel, (see Side View),

paint flat black and glue in place. Install

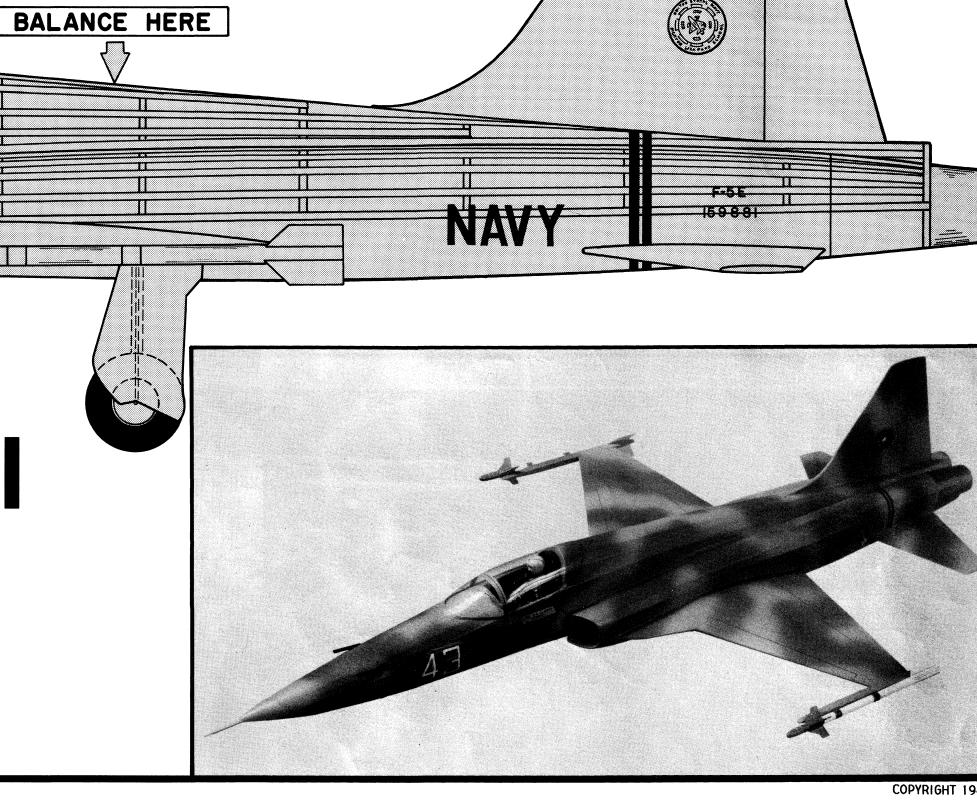
Decais at locations shown on Side View.

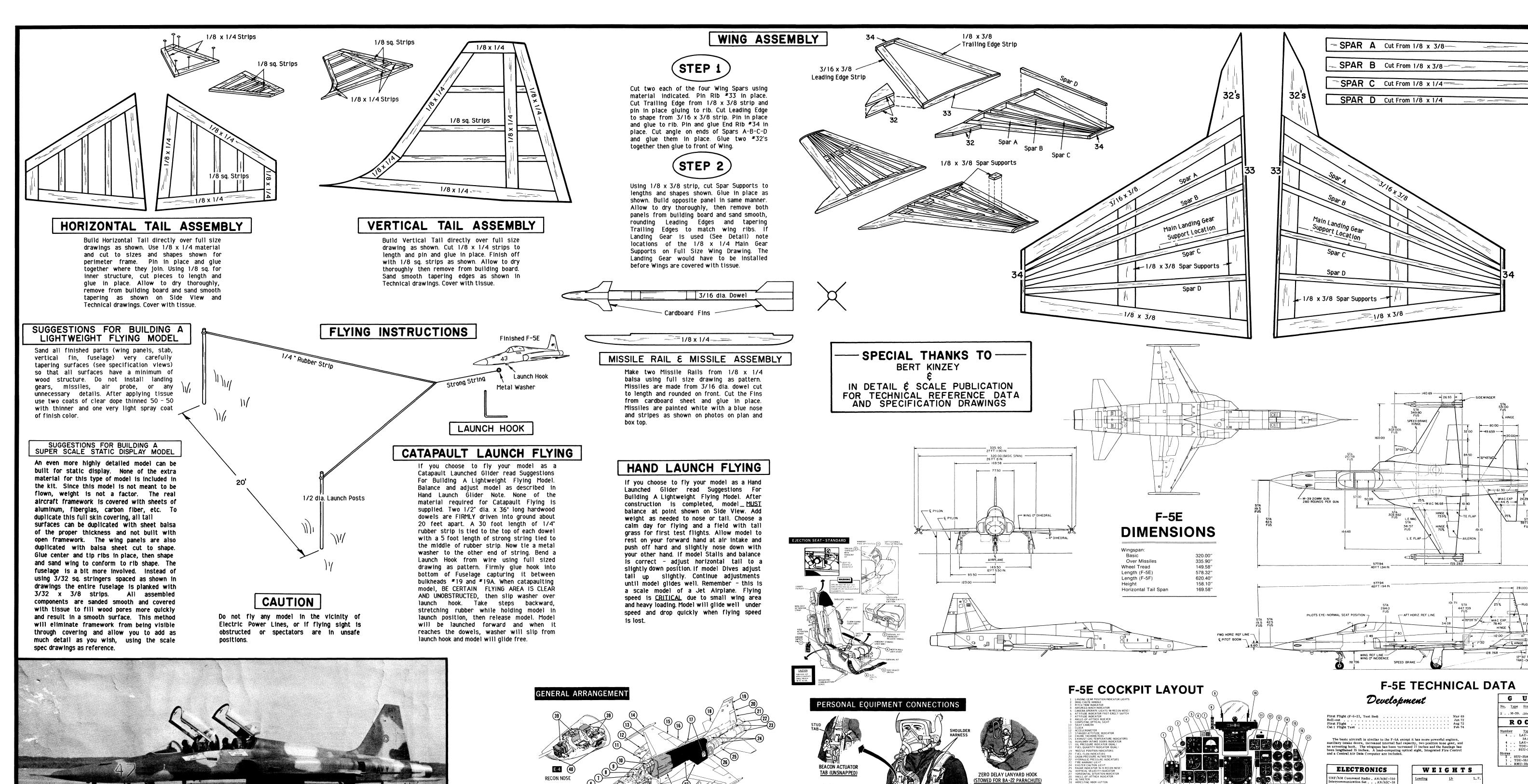
# Horizontal Tail 3/16 x 3/8 Filler Block Missile Rail -Plastic Air Intake Pitot - Static Boom

# KIT J-3 F-5E TIGER II 1/24 Scale Balsa Flying Model Length: 24" Wingspan: 13"

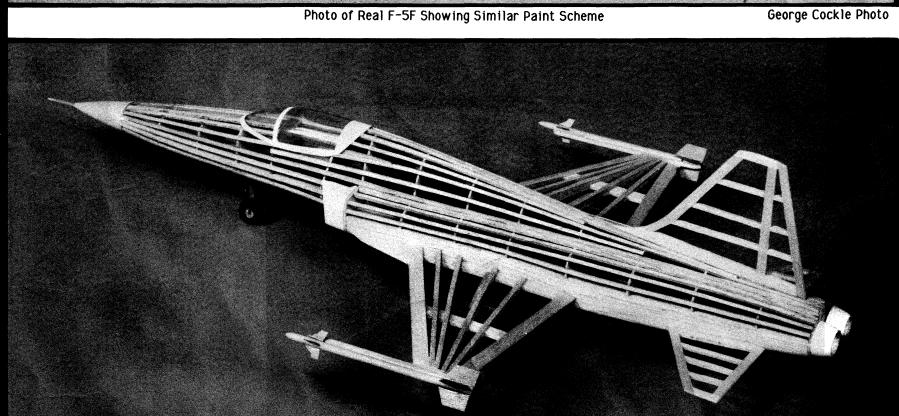
TODAY5 HOBBIES INC.

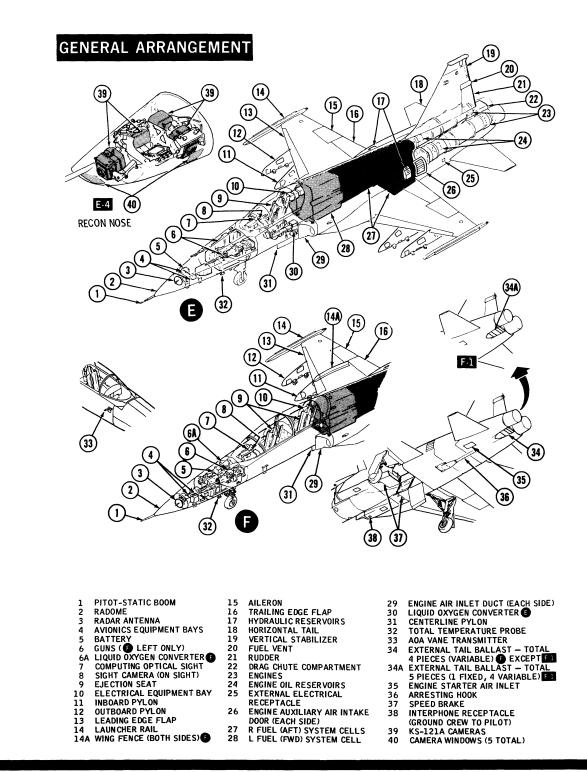
SIDE VIEW

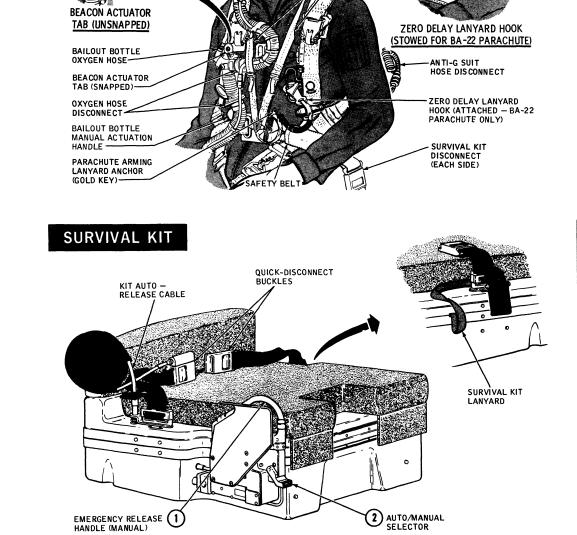












Courtesy of the U.S.A.F.

