

FALCON 56 MARK II

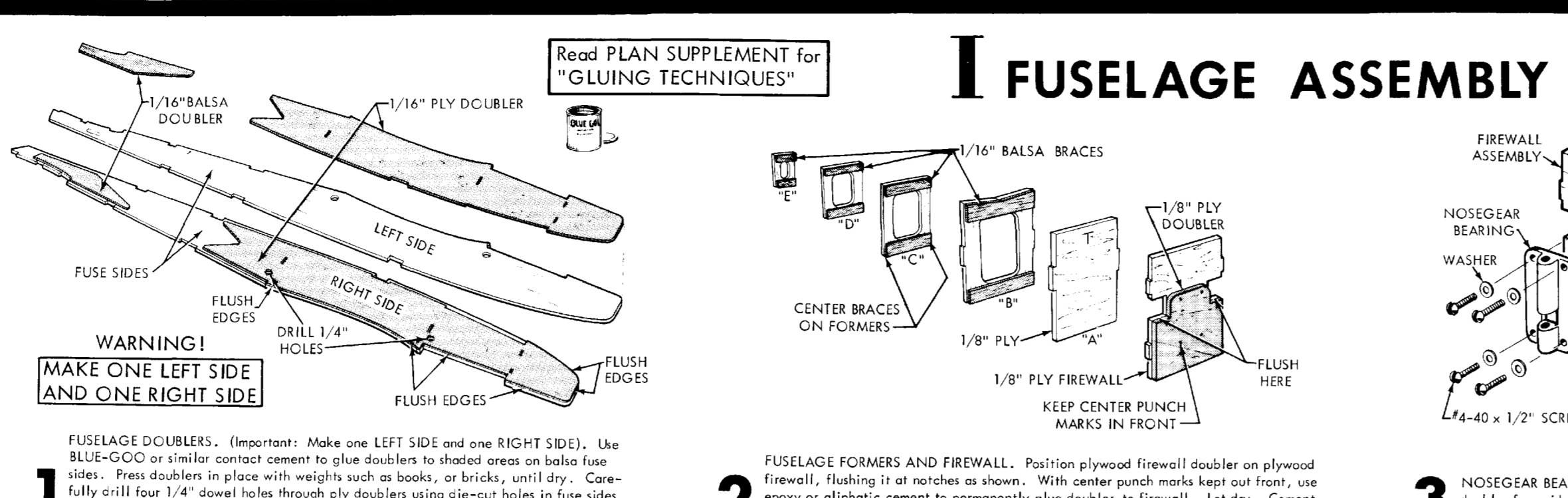
R/C MODEL, KIT G15II
3 TO 4 CHANNEL PROPULSION
FOR 19 TO 40 ENGINES

Designed and drawn by:
Carl Goldberg, Inc. Model Design
Carl Goldberg, Inc. Model Design
Carl Goldberg, Inc. Model Design

SPAN 56" LENGTH 47" AREA 557" SQ. IN. WEIGHT 10 TO 14 LBS.

FINAL MODEL AND PHOTOS BY DICK TICHENER

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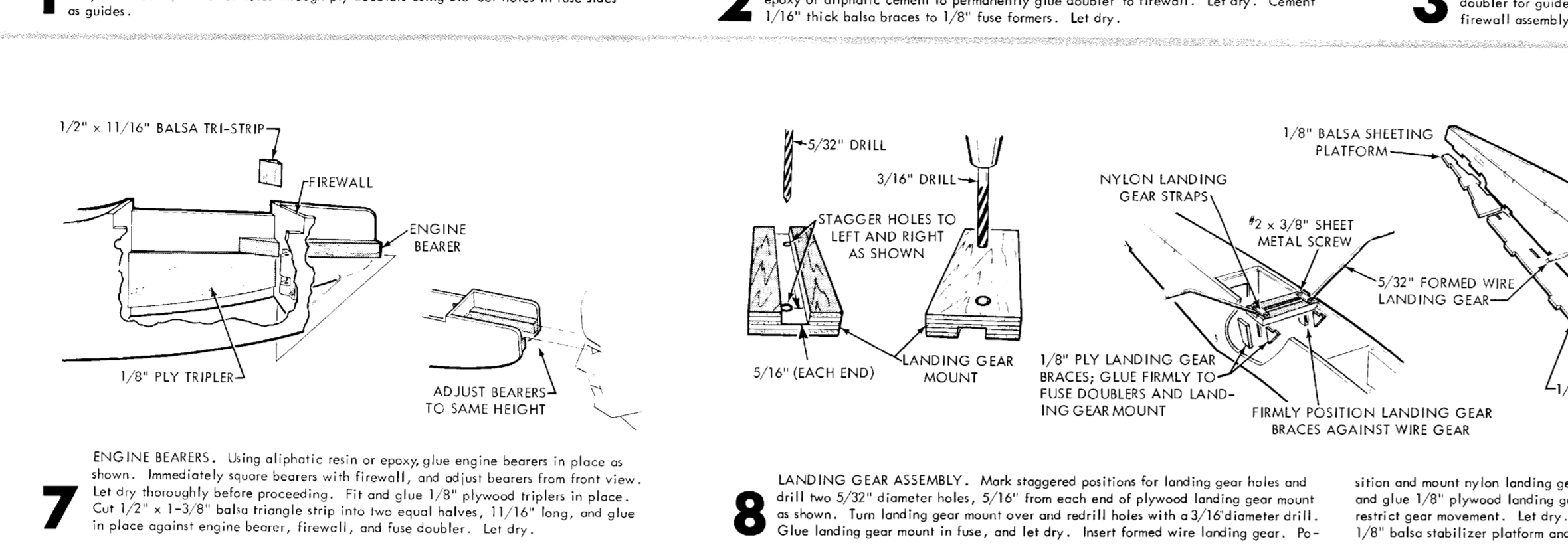


GENERAL INFORMATION FOR CONSTRUCTING FALCON 56 MARK II BEFORE STARTING ASSEMBLY OF MODEL: read plan carefully and construct your model in the following order:

- 1 FUSELAGE (Steps 1 through 11)
- 2 COVERING AND TRIM
- 3 FIN AND RUDDER (Steps 1 through 3)
- 4 WING (Steps 1 through 11 or BA)
- 5 STABILIZER AND ELEVATOR (Steps 1 through 9)
- 6 COVERSING, FINAL ASSEMBLY, AND RADIO INSTALLATION*
- 7 GENERAL

RADIO: A 3-channel radio will allow you to control rudder, elevator, and engine throttle. As a trainer, the Falcon does an excellent job with 3-channels and can perform almost all maneuvers including inverted flight and outside loops. Also, the wing construction and radio installation for 3-channels are simpler. You can buy a 3-channel radio, or use 3-channels out of a 4 or 5-channel radio.

HOW TO DETERMINE THE SIZE OF YOUR ENGINE: Choosing the size of your engine is governed by three factors: (1) weight of engine and muffler, (2) type of runway surfaces, and (3) altitude of airfield. If your model weighs around 3-4 lbs., your take-off surface is paved, and your airfield is not too far above sea level, a .19 engine is adequate. If, by contrast, your model weighs in at 4-5 lbs. and your take-off surface is grass, and your field is 5000 to 6000 ft. above sea level, you will need a .40 engine. Check your dealer and other modelers in your area for their recommendations. It is often recommended to have extra power for take-off and then decreasing power once airborne for safe handling until you have gained experience.



USING THE ENGINE SELECTION CHART: Circle the engine size below each box checked.

1. Determine "EXPECTED WEIGHT OF MODEL" from PLAN SUPPLEMENT booklet.

2. Check-off the box in columns A, B and C that apply to your model.

3. Choose the closest engine size to the resulting figure.

ENGINE SELECTION CHART EXAMPLE:

Engine Size	Column A			Column B			Column C		
	1.0-3.5 lbs.	3.5-4.5 lbs.	4.5-5.5 lbs.	1.0-3.5 lbs.	3.5-4.5 lbs.	4.5-5.5 lbs.	1.0-3.5 lbs.	3.5-4.5 lbs.	4.5-5.5 lbs.
0.10									
0.15									
0.20									
0.25									
0.30									
0.35									
0.40									
0.45									
0.50									
0.60									
0.70									
0.80									
0.90									
1.00									
1.20									
1.40									
1.60									
1.80									
2.00									
2.20									
2.40									
2.60									
2.80									
3.00									
3.20									
3.40									
3.60									
3.80									
4.00									

Column A - Weight 3-3.5 lbs. = .25 engine
Column B - Weight 3.5-4.5 lbs. = .35 engine
Column C - Weight 4.5-5.5 lbs. = .45 engine

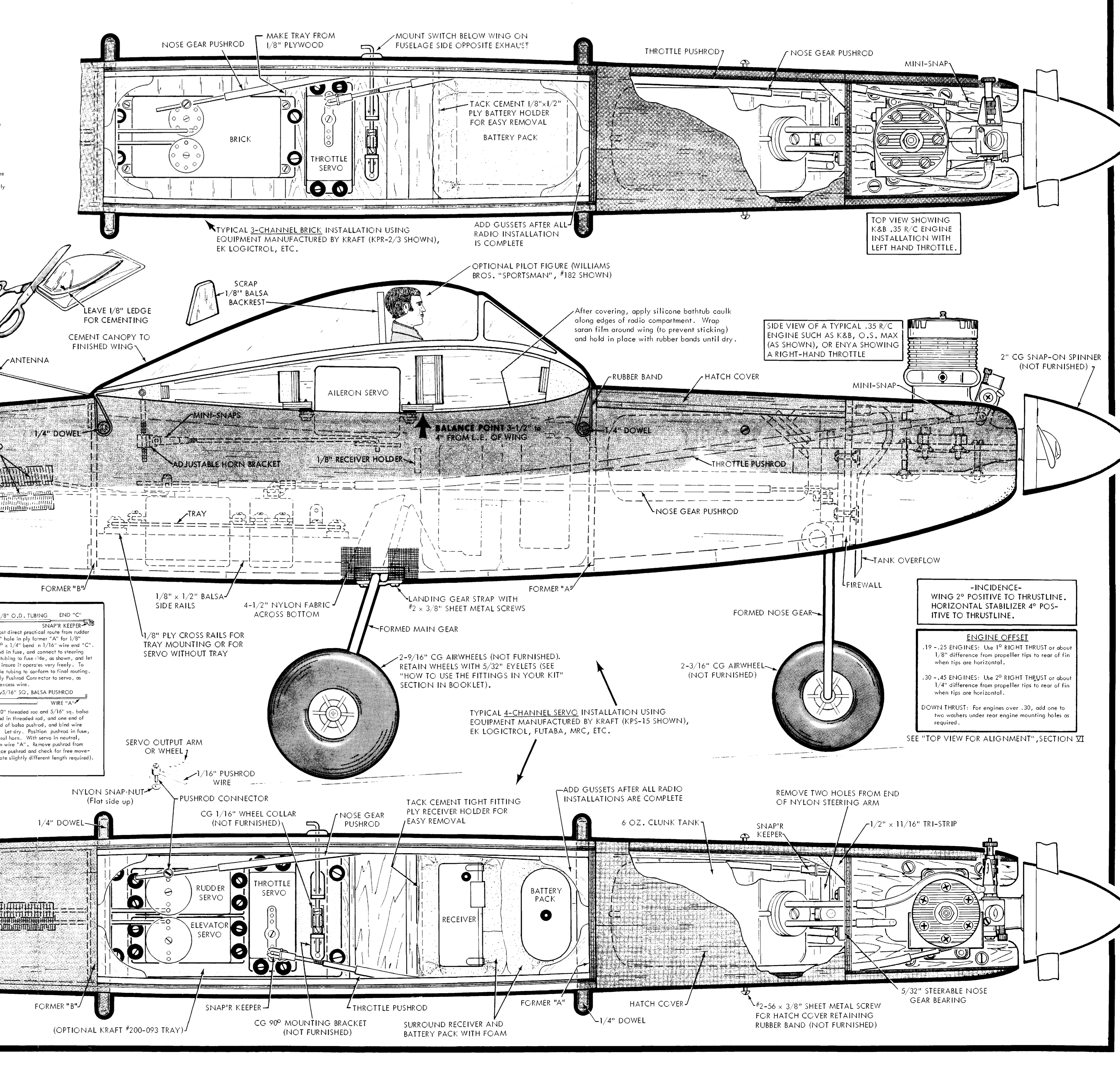
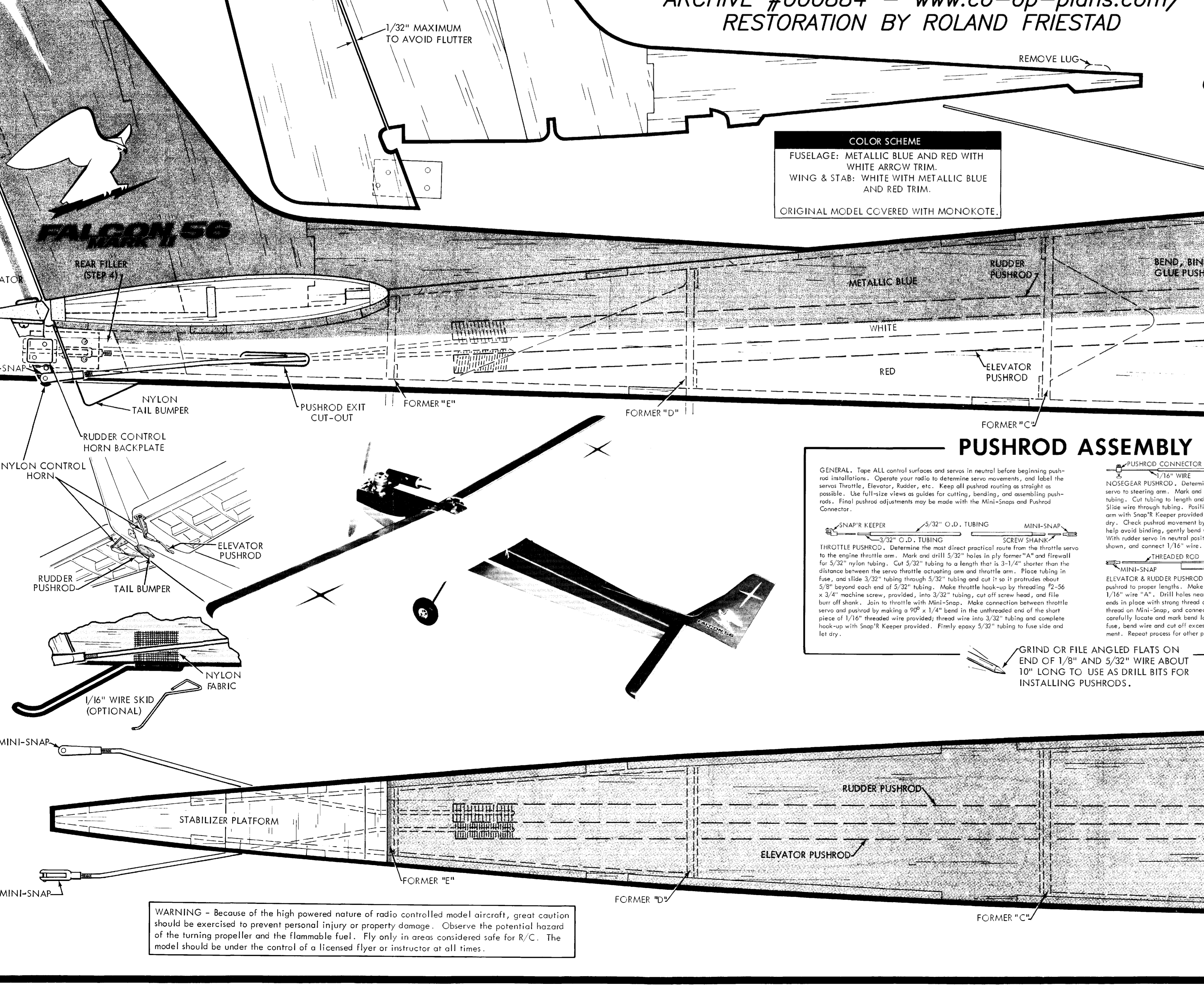
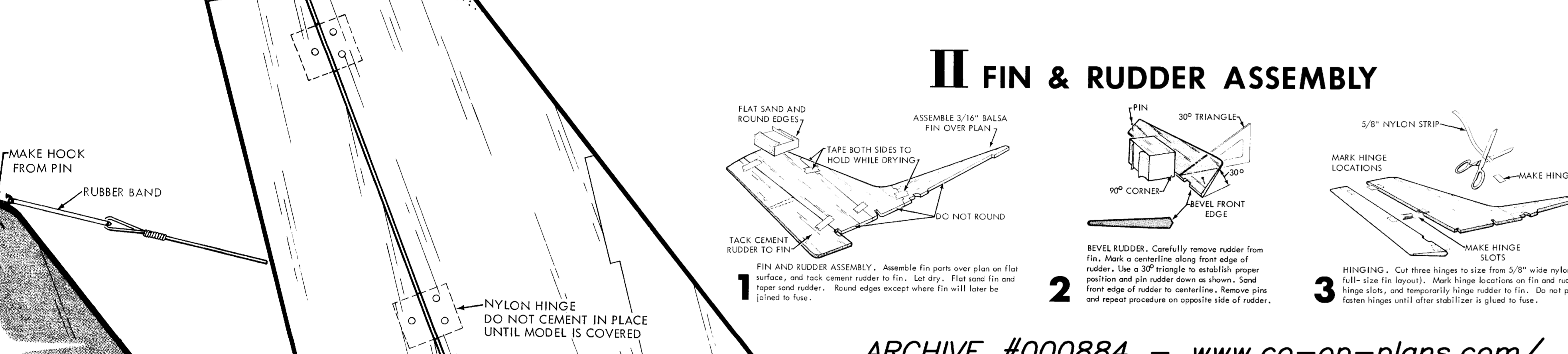
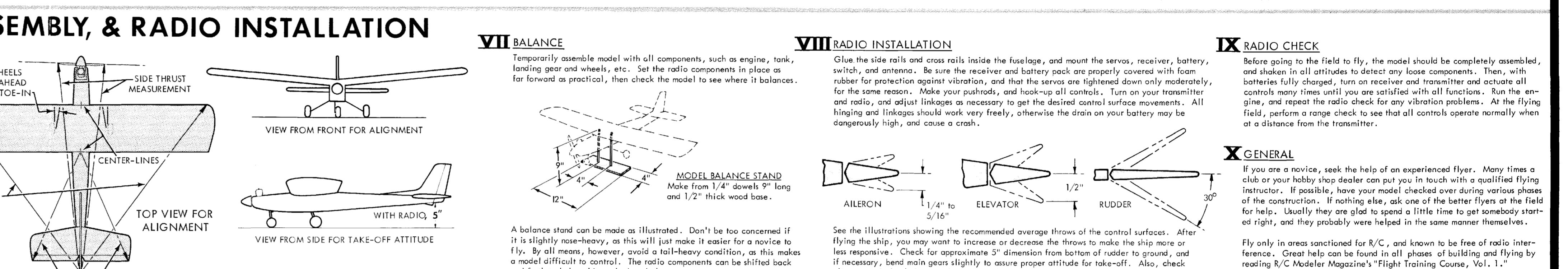
When in doubt, or to get extra performance, use the next larger engine size.

RECOMMENDATIONS: Use a propeller corresponding to your engine selection as shown on the chart. If your flying site is far above sea level, you may find it necessary to go to the next larger propeller. If necessary, consult with R/C flyers or hobby shops in your area for their recommendations.

ADHESIVES: Be careful not to use too little or too much glue. Too little leaves a model weak. Excessive use of adhesive and joints can make a model heavy. Aliphatic resin glue such as Wood-Glue or Tite-Bond makes good strong joints, however, fuel-proof cement may be used for all joints except hatchcover. For wood joints, such as fuselage doublers, contact cement such as Blue-Goo are ideal. Cyanoacrylates, such as JET Super Glue, are good for rapid adhesion and holding structures together. Cyanoacrylates require well-fitted joints. (Where gaps exist, they can be filled with tape, saw dust, or micro-bubbles before applying the cyanoacrylate to make a strong joint.) Epoxy glue or aliphatic resin glue are recommended for high stress joints such as wing joints, firewall, and engine bearers (see PLAN SUPPLEMENT for gluing techniques). Epoxy glue also may be used as a fuel-proof coating for engine and tank compartments.

V COVERING AND TRIM: Any good covering job should be preceded by filling nicks and dents with wood filler or balsa sand, and sanding wood surfaces. Any imperfections in the wood surface will show on the covering, so a smooth sanding job is a must for appearance. Also, when using fabric, avoid excessive stapling, otherwise the model will be heavy. Many novices wind up with uncomfortable tail-heavy airplanes because of this.

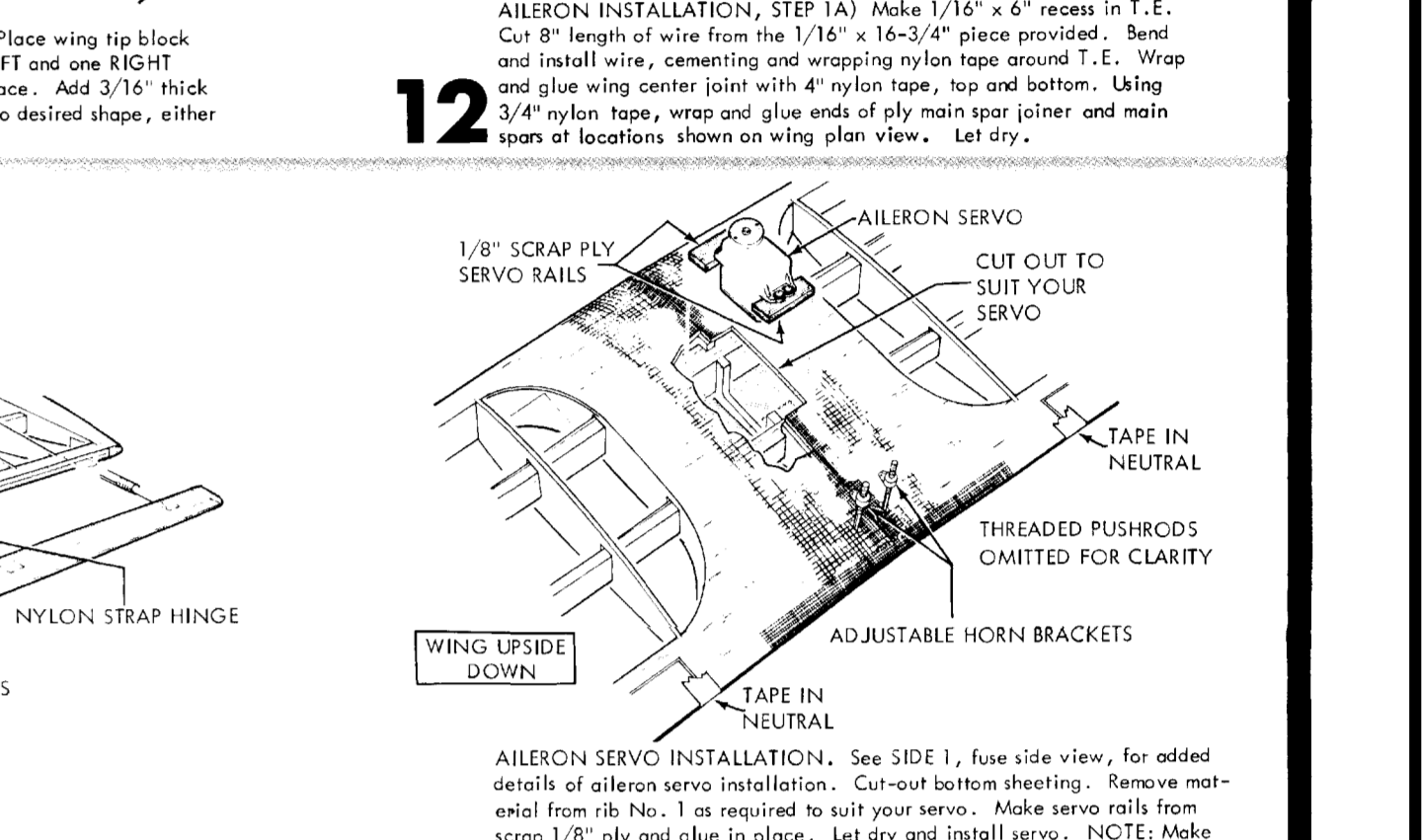
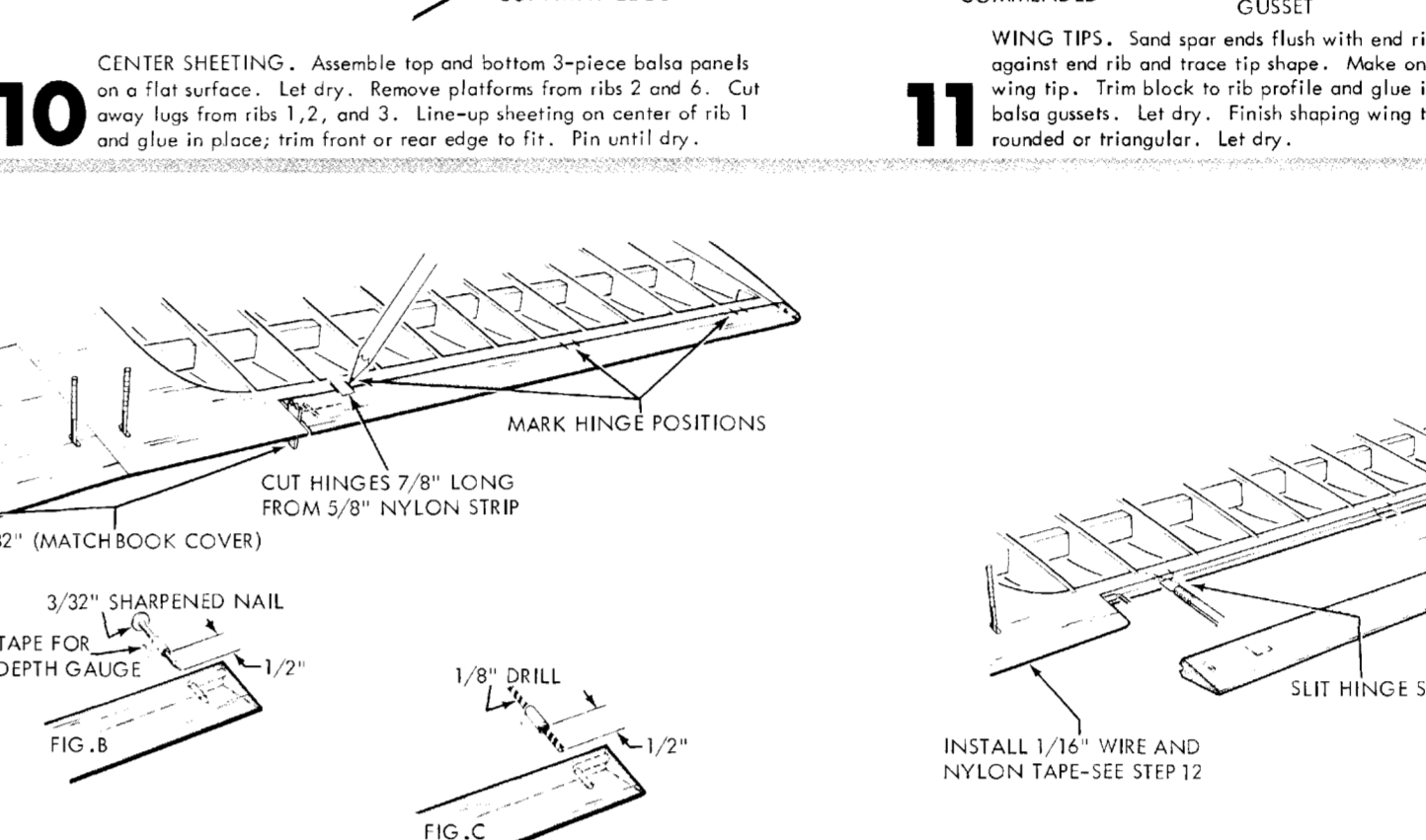
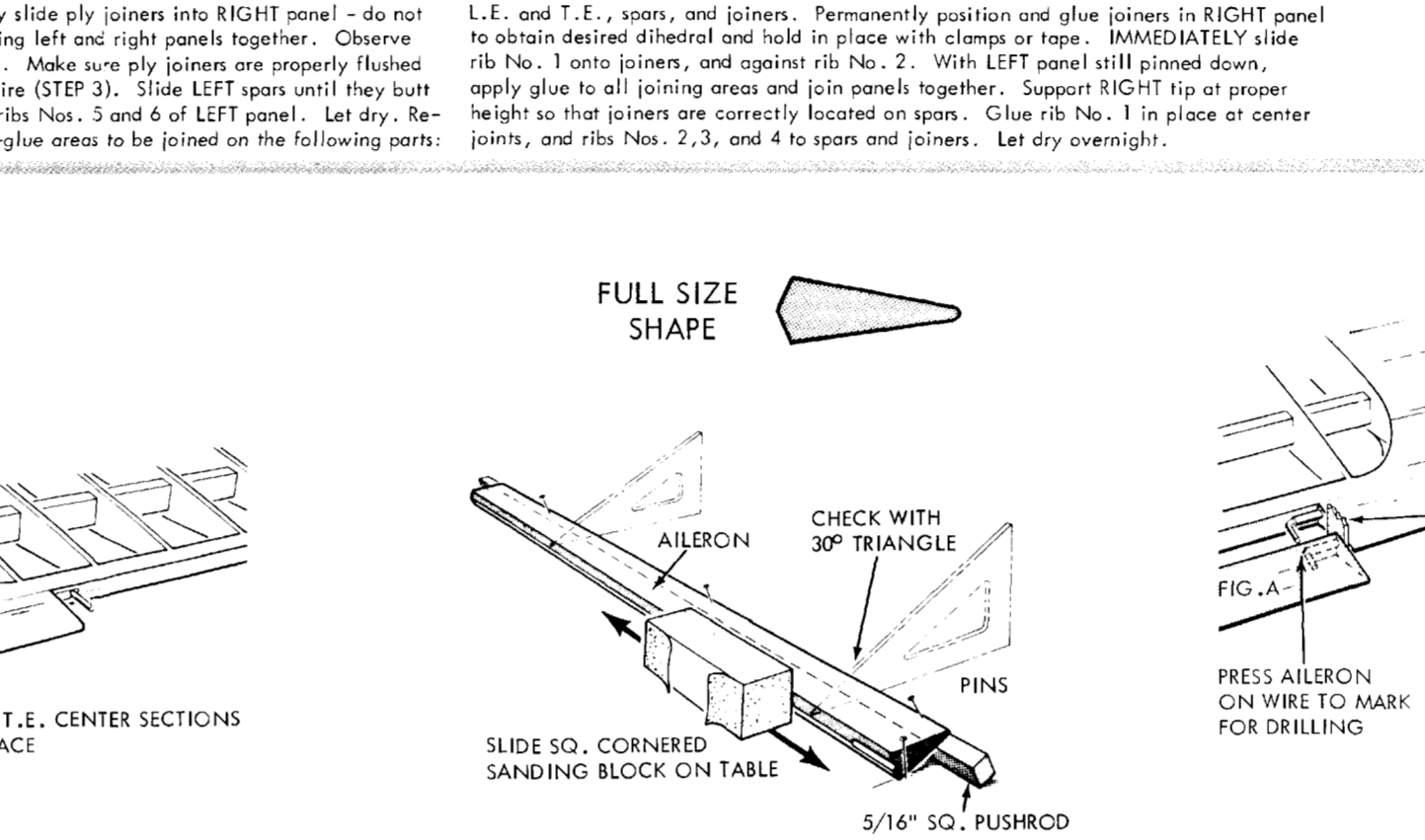
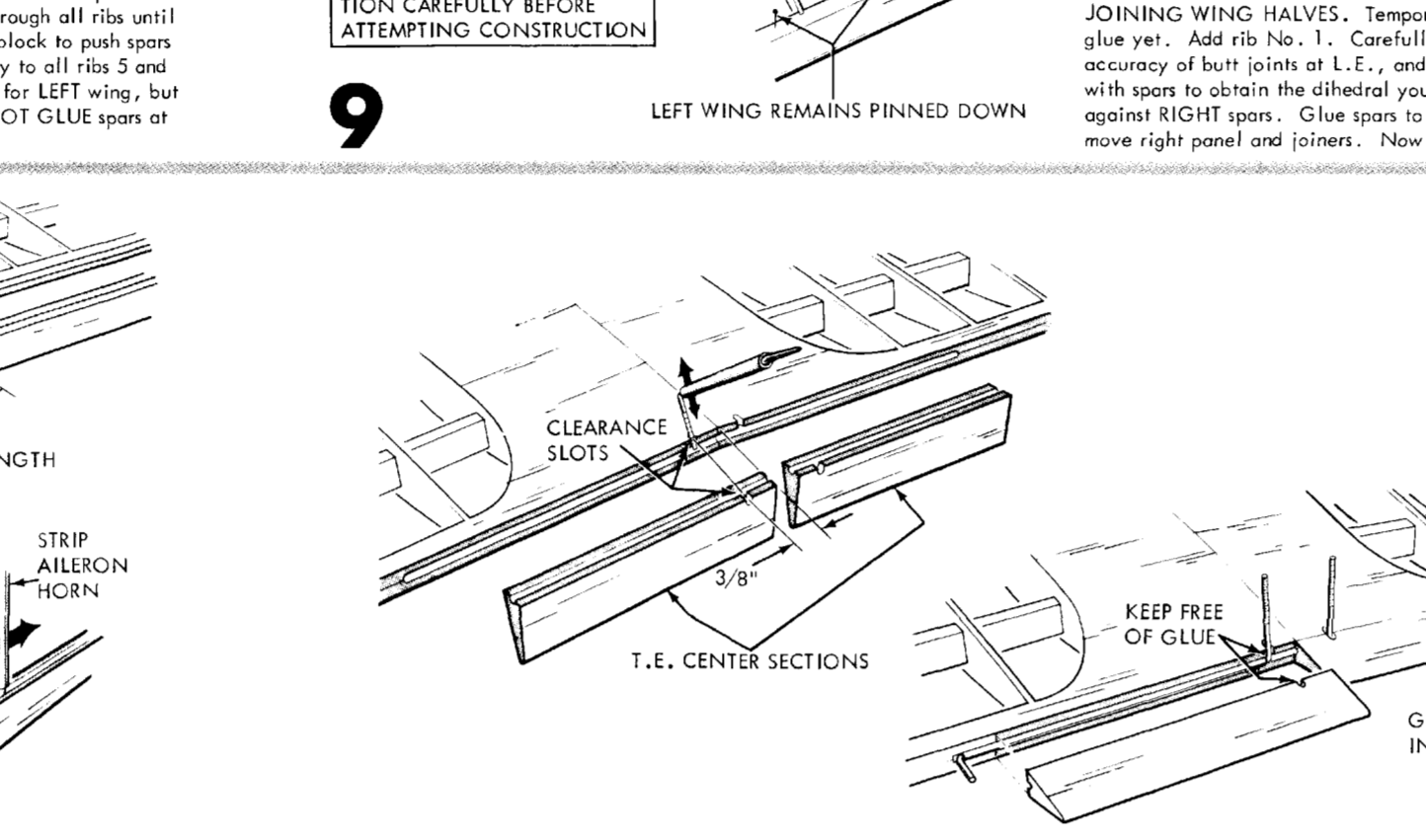
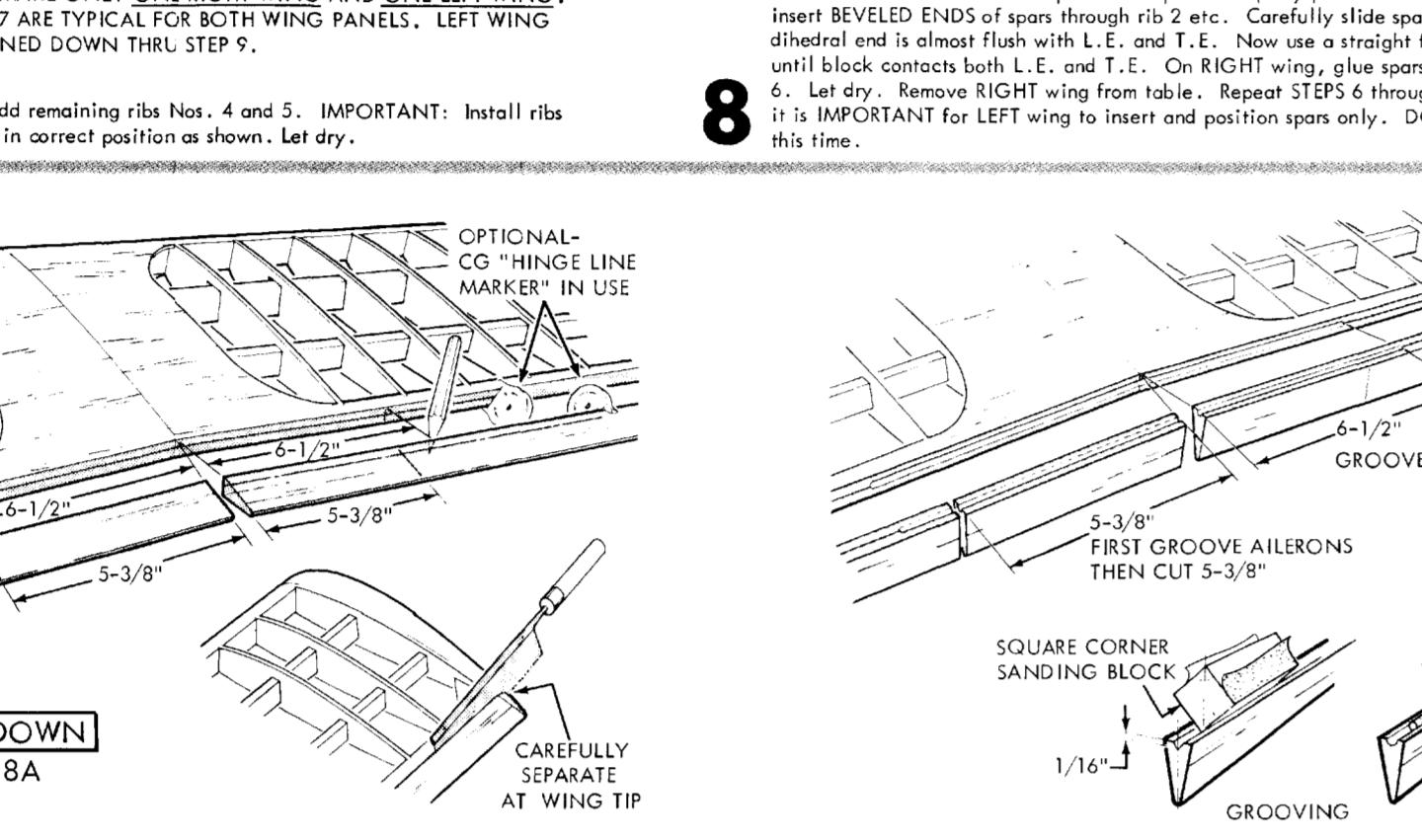
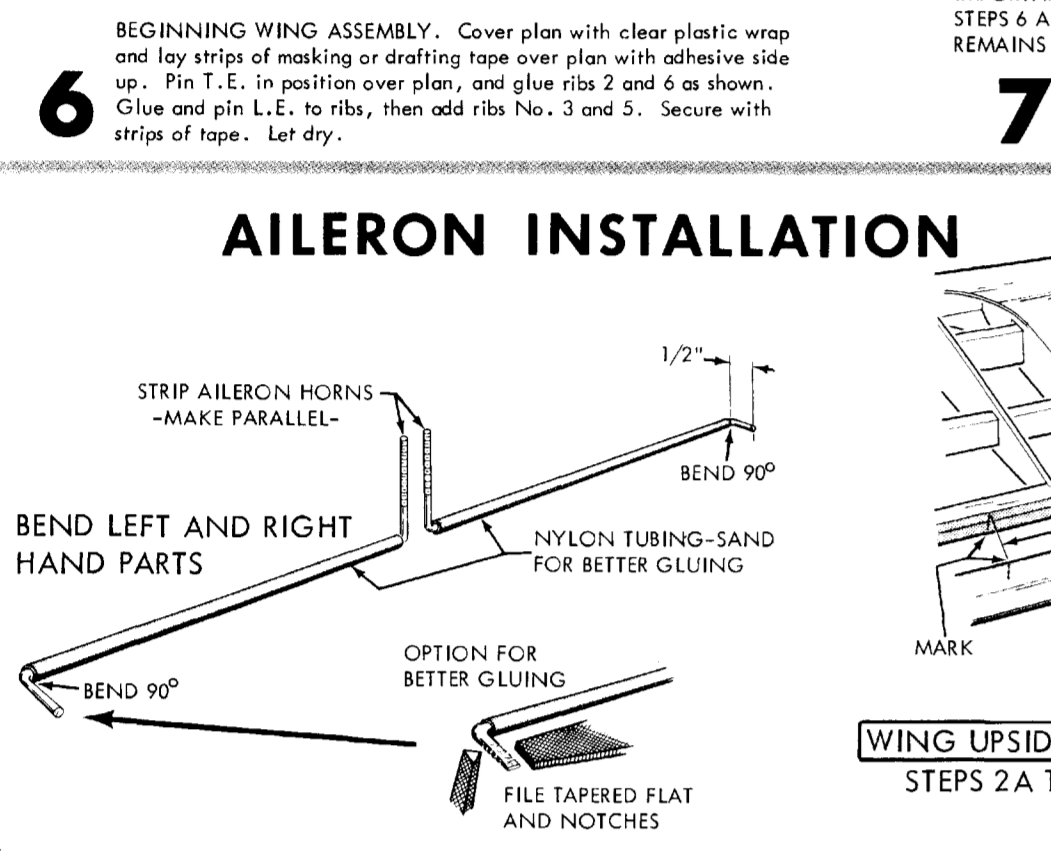
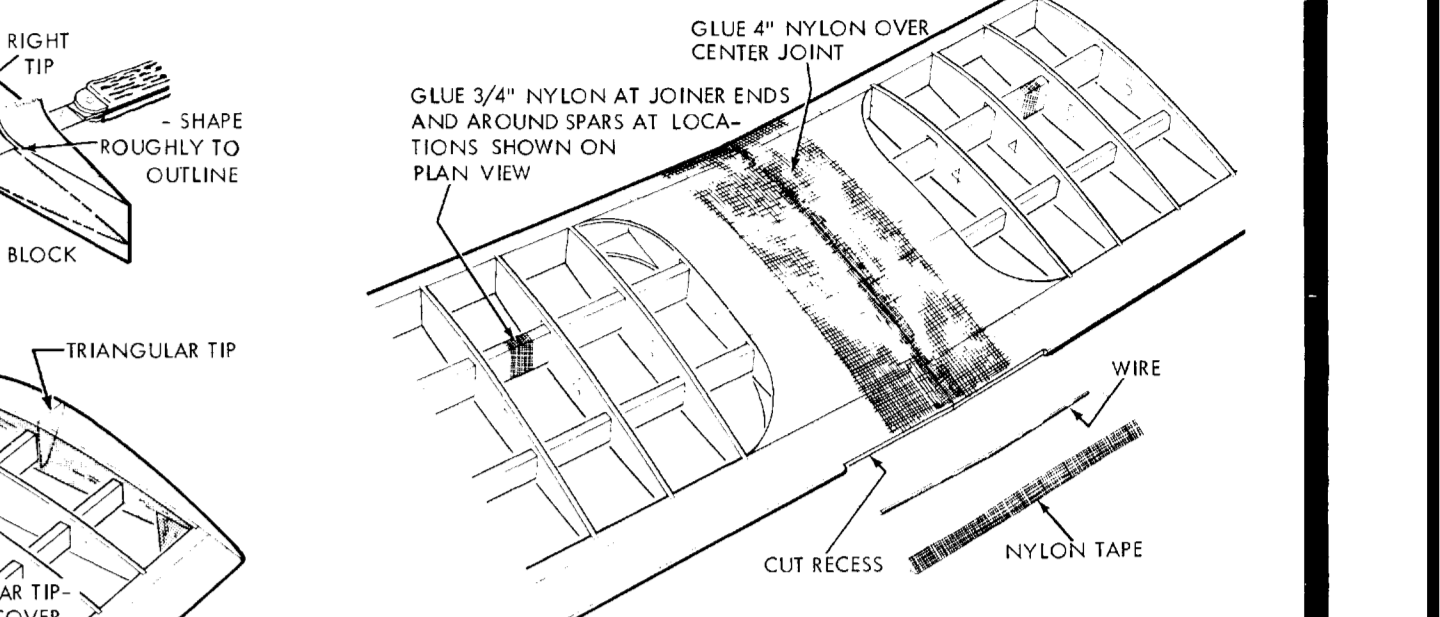
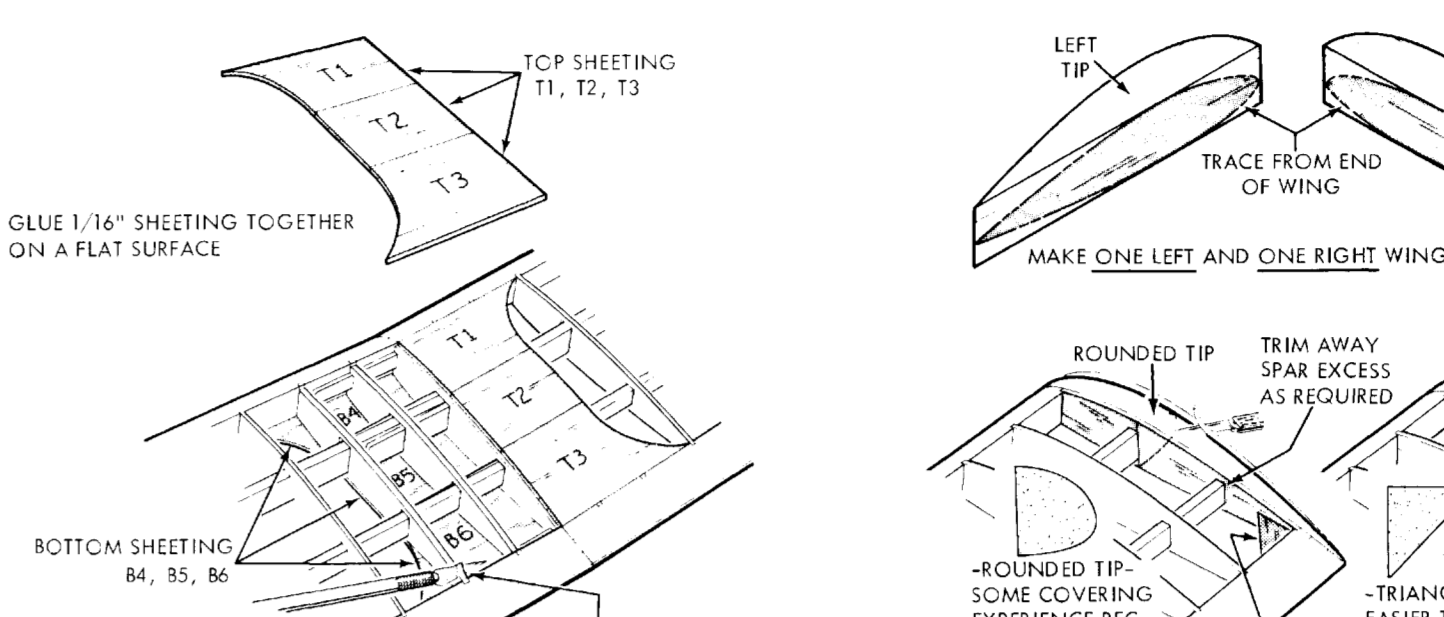
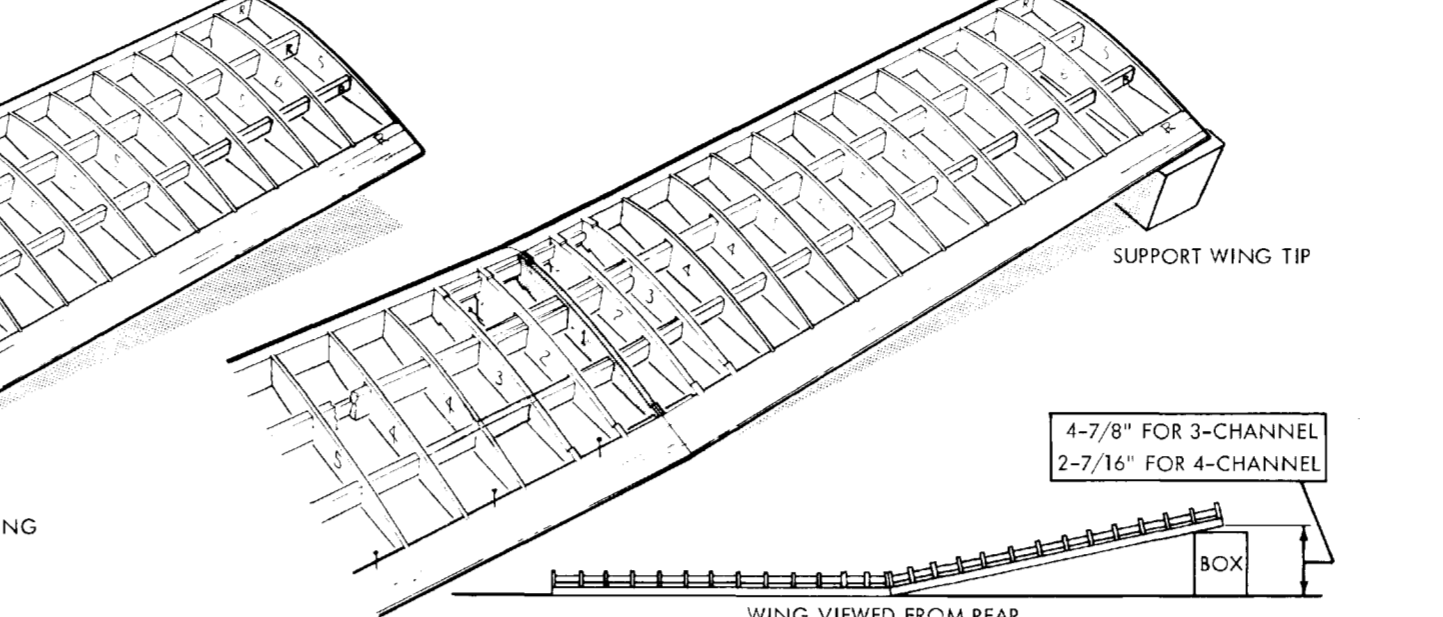
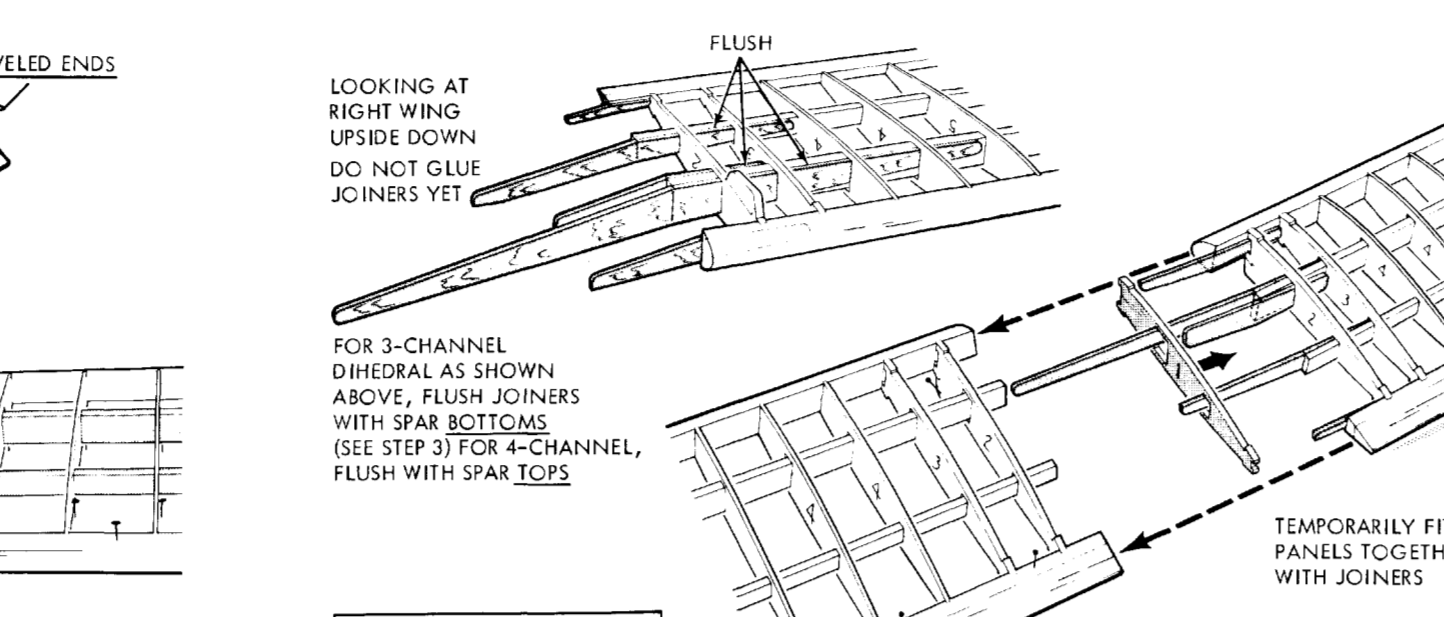
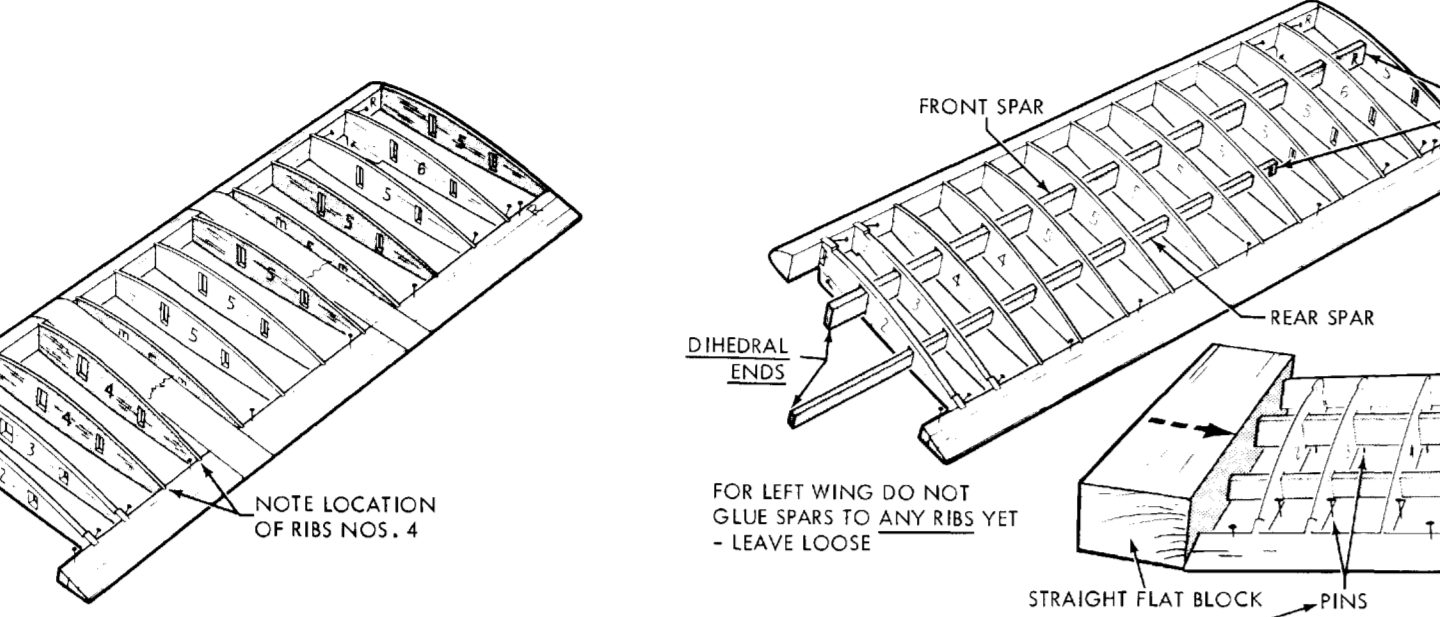
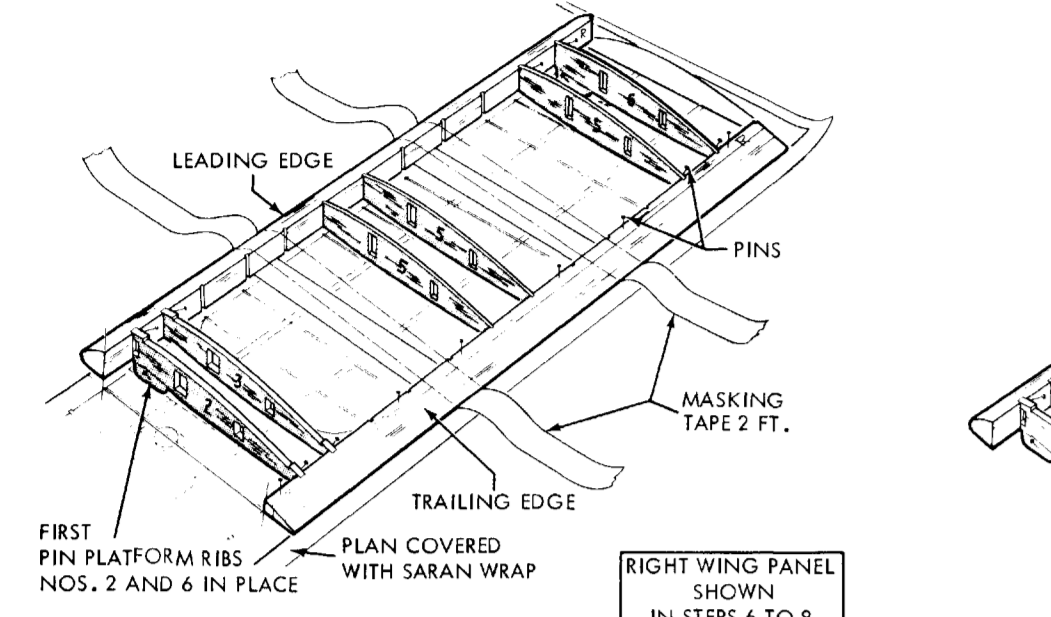
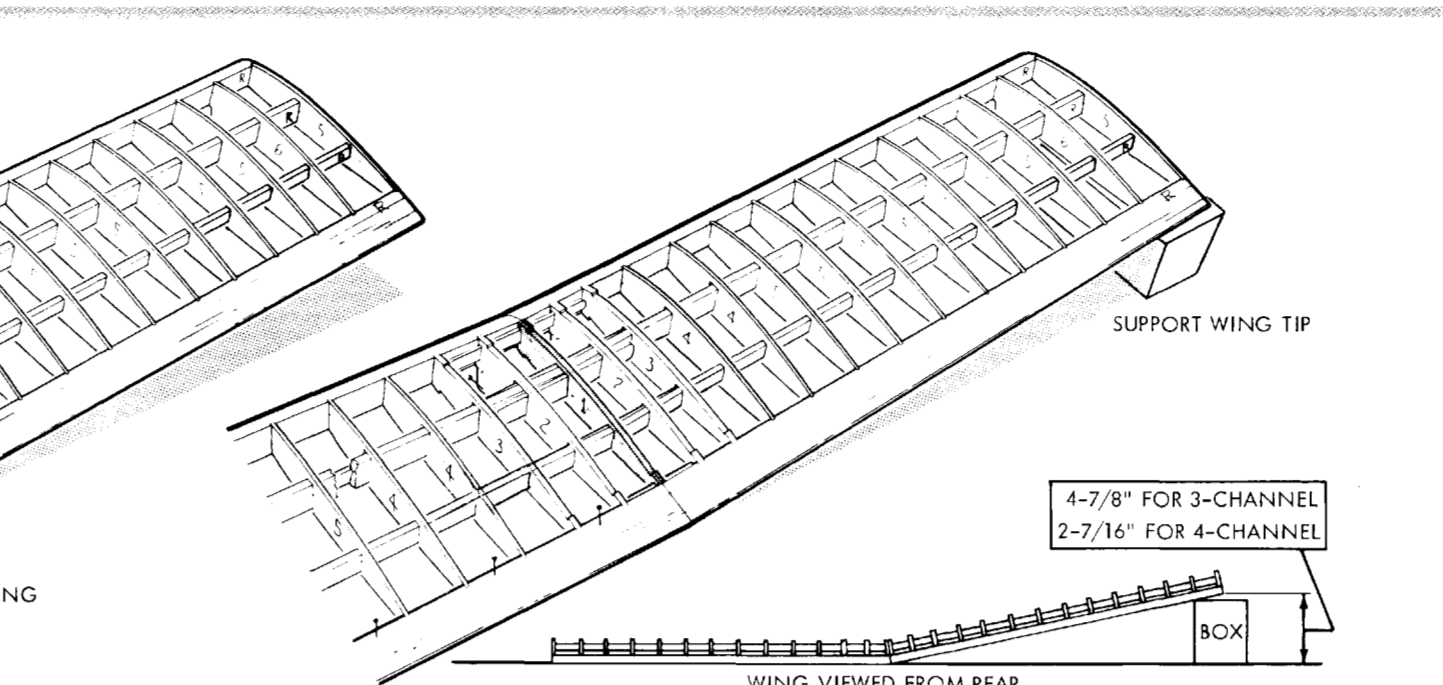
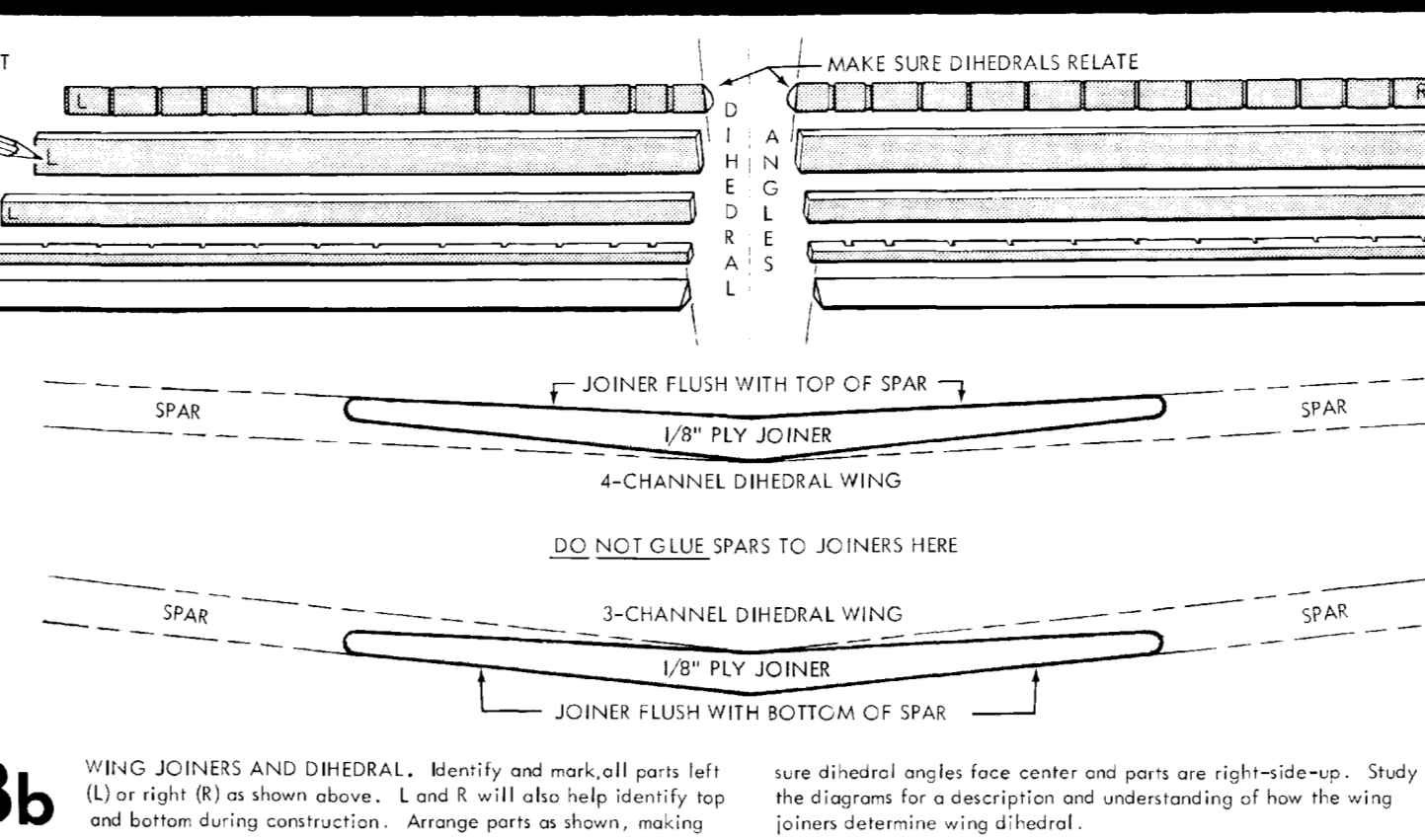
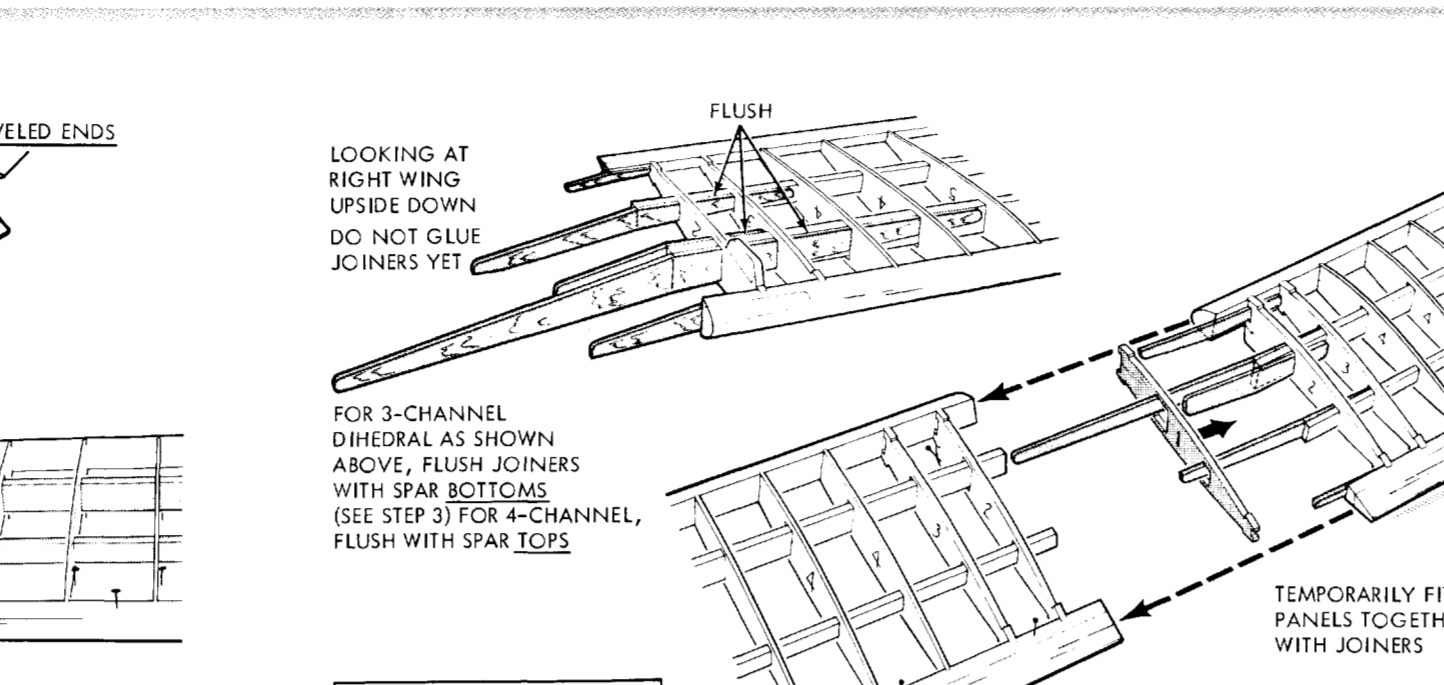
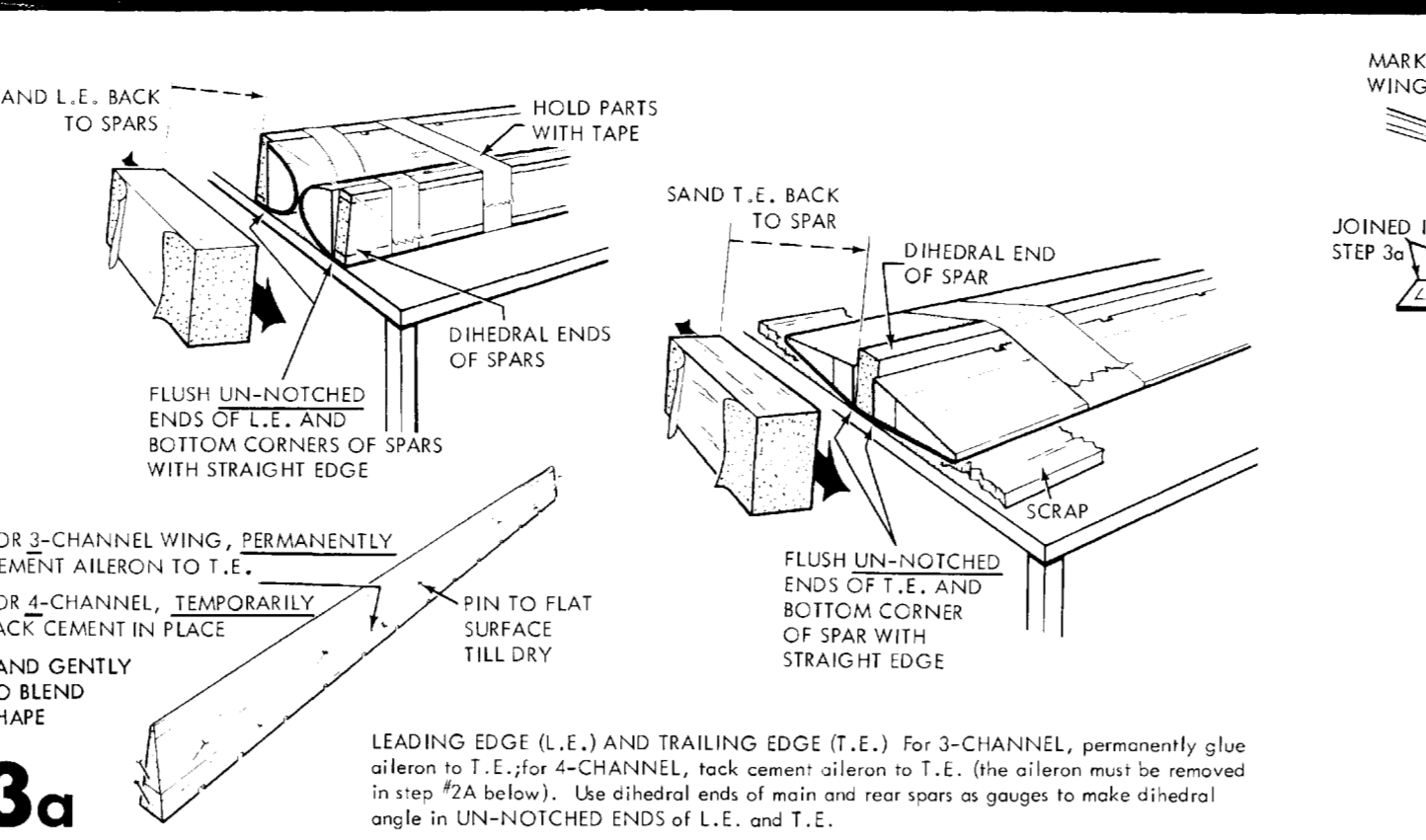
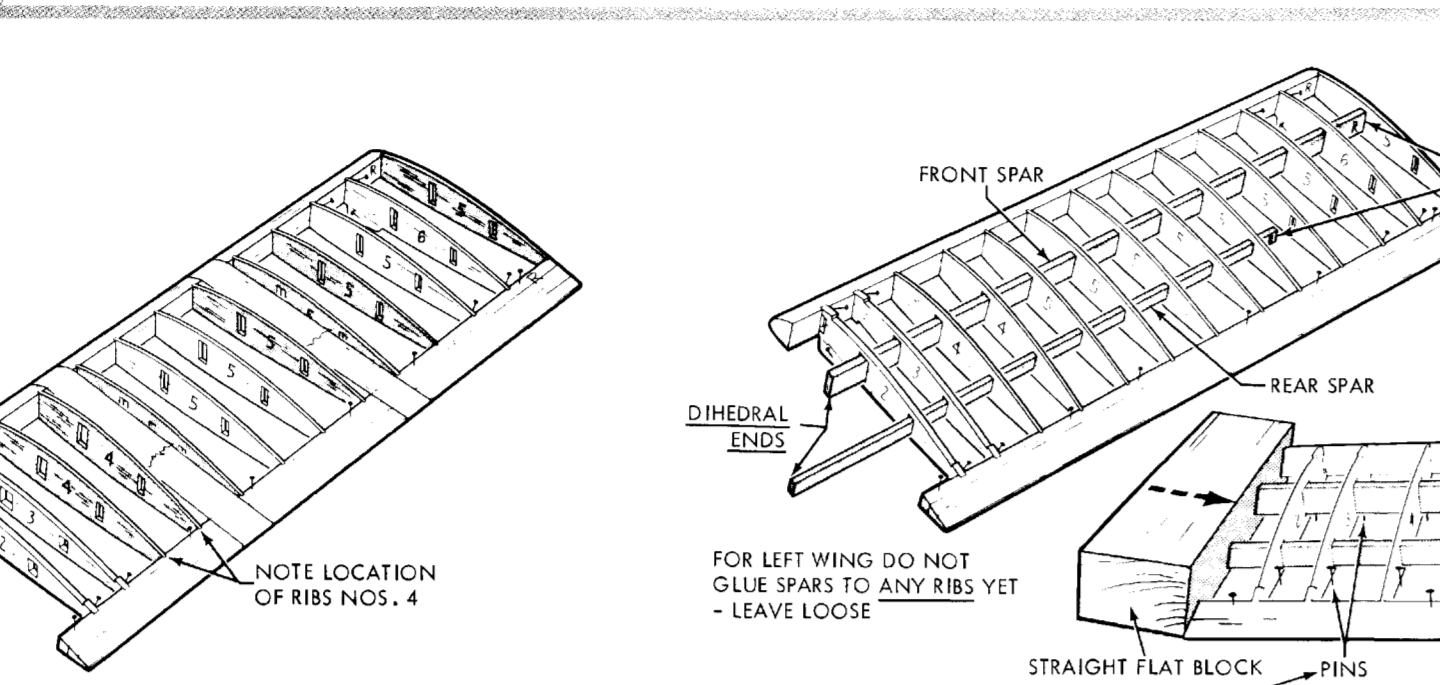
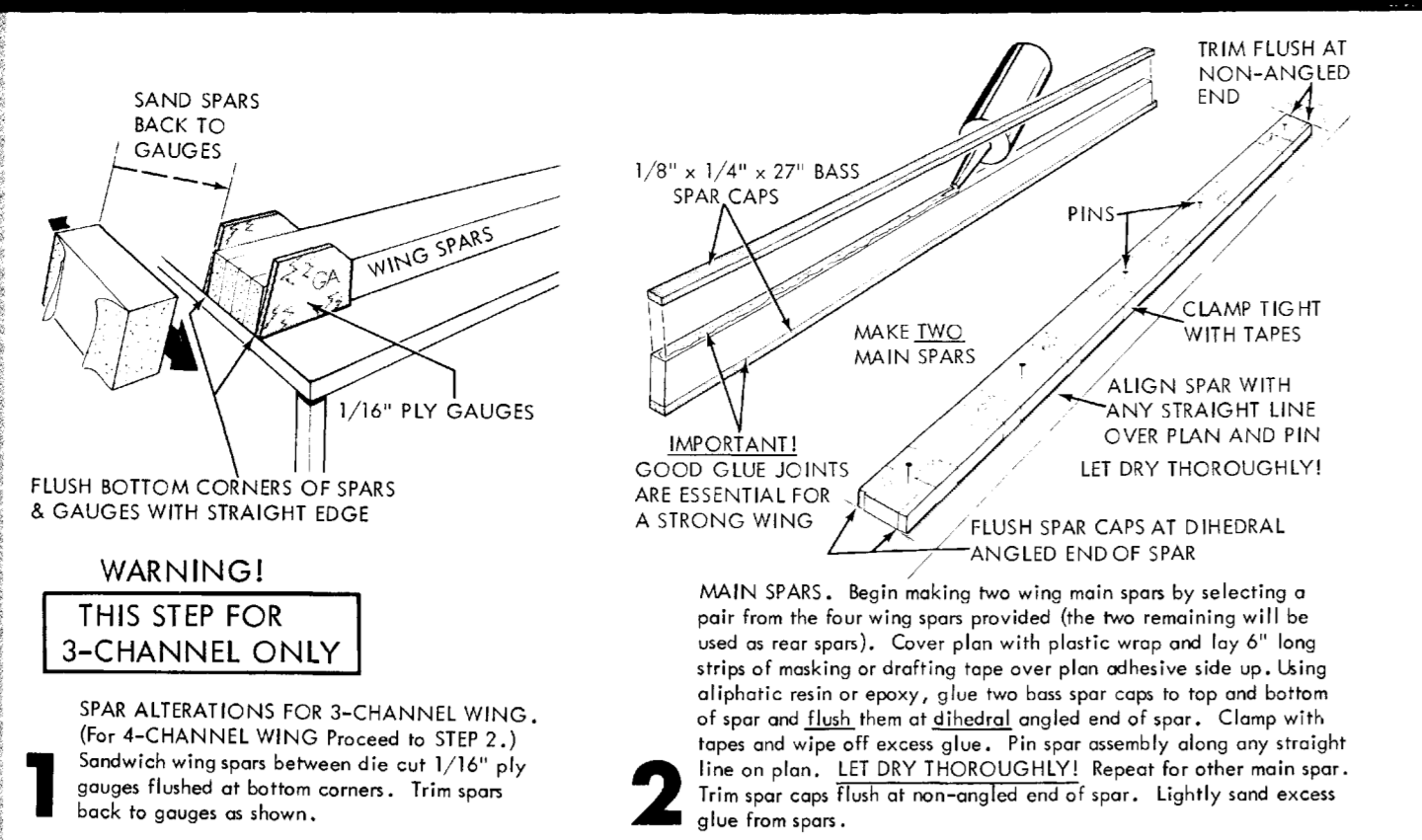
VI FINAL ASSEMBLY: Glue the 1/4" wing dowels firmly to the fuselage, and touch up with paint. Make the wing rest position of silicone bathbath caulk as indicated. Mount wing, and center it carefully as shown in the chart. Then mark marking center lines on wing and fuselage. Set stabilizer in level, and slip on one side or the other until it is level. When the wing is level, glue stabilizer to fuselage. Add the control horns, and install the fin from front to rear to see that it is packing edge straight ahead through the center of the fuselage. Hinge the rudder to the fin and fuselage. Add the control horns, and install the rudder and main gear strut and landing gear. Install the tank and fuel lines. With model fully assembled, recheck alignment of all flying surfaces.



SIDE 2 FALCON 56 MARK II

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WING ASSEMBLY

First, read "GENERAL INFORMATION," etc., and decide whether you want a 3 or 4-channel airplane. In a 3-channel set-up, the wing has no ailerons, but stabilizes itself with sufficient dihedral (the upward bend of the wings). The wing for a 4-channel ship is somewhat flatter, and uses ailerons to provide control.



IV STABILIZER & ELEVATOR ASSEMBLY

