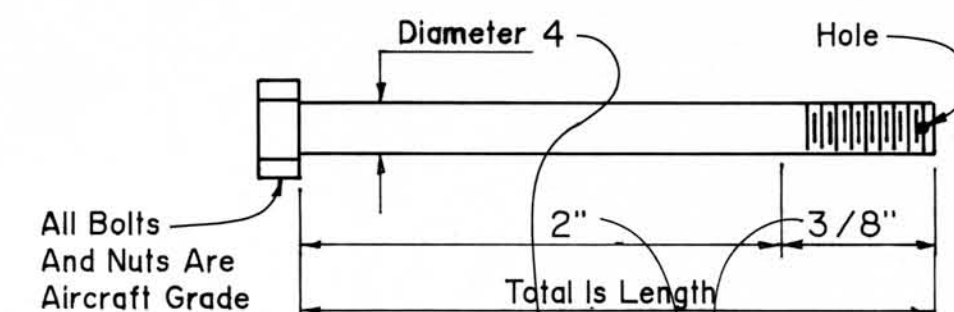


ASSEMBLY INSTRUCTIONS FOR THE SUPER TWO SEATER



BOLT DESCRIPTION

AN 4 - 23 A

- Aircraft Grade
- 4 Indicates 1/4" Diameter
- 5 Indicates 5/16" Diameter
- Length In Inches
- Length In 1/8 Inches
- Indicates No Hole In End Of Bolt

WEEDHOPPER INC

READ AND STUDY THIS PAGE BEFORE ASSEMBLING ANY PARTS

GENERAL NOTES :

BE CAREFUL NOT TO OVERTIGHTEN BOLTS OR CRUSH TUBING.

Where two tubes bolt together, use a plastic washer to minimize scuffing under vibration. (See Diagram Below)

At least 1 and 1/2 threads should show beyond the plastic insert in the Nylock nuts to be sure of adequate safety action.

Nylock nuts may be re-used as long as they are too hard to turn by hand.

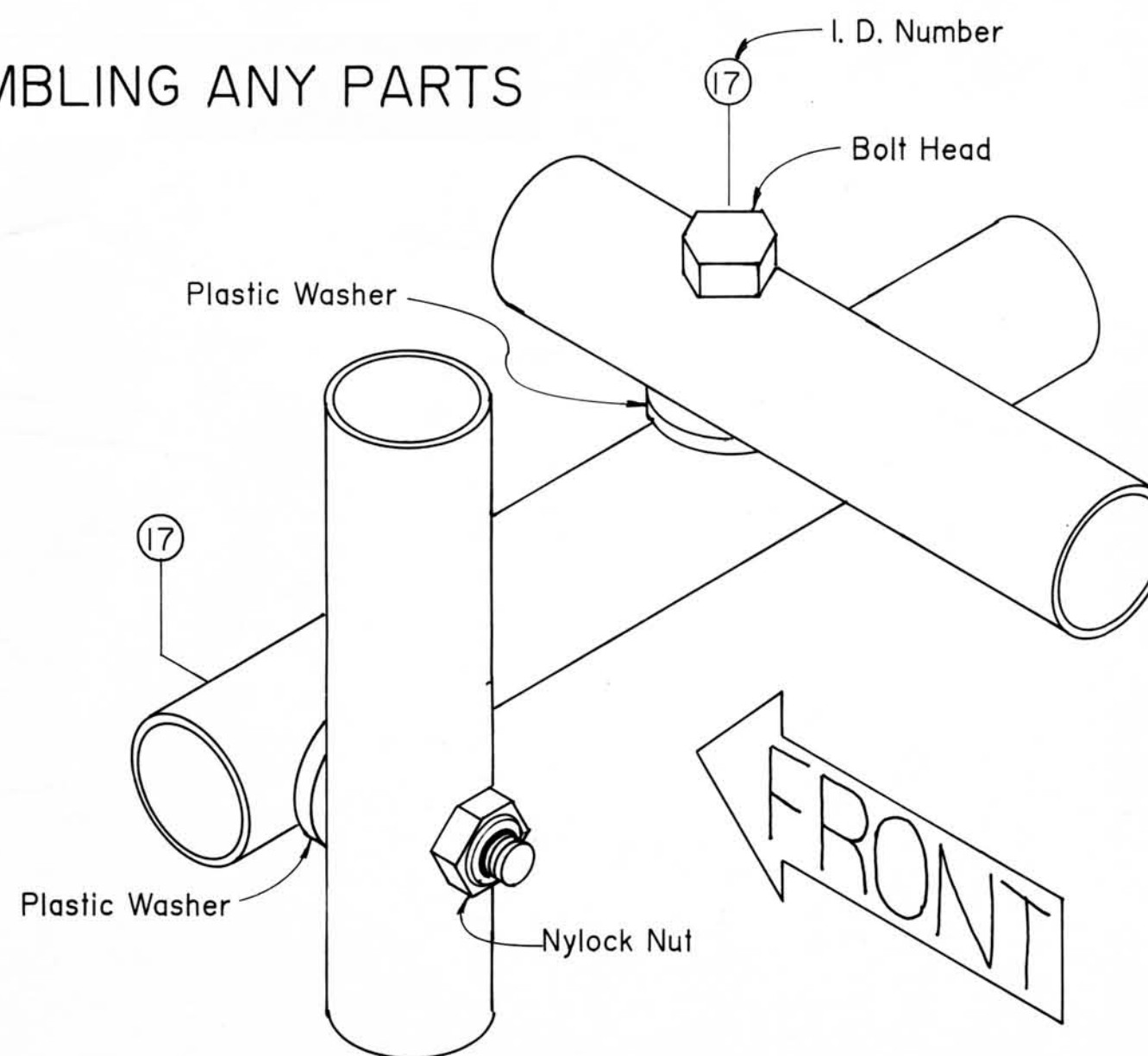
Bolts Should always as a rule be installed front to back, or nuts on bottom, so they won't fall out. (See Diagram Below)

Bolts are identified on the drawings with a small circle and number inside. These numbered circles also show the direction of the bolt. The bolt head will be on the side of the circle. (See Diagram Below)

Use the bolt chart to find the bolt size needed.

All Bolts called for will have either a 1/4" or 5/16" Nylock nut installed with it.

Follow Numbers To Left Of Captions Near Diagrams For Sequence Of Assembly.



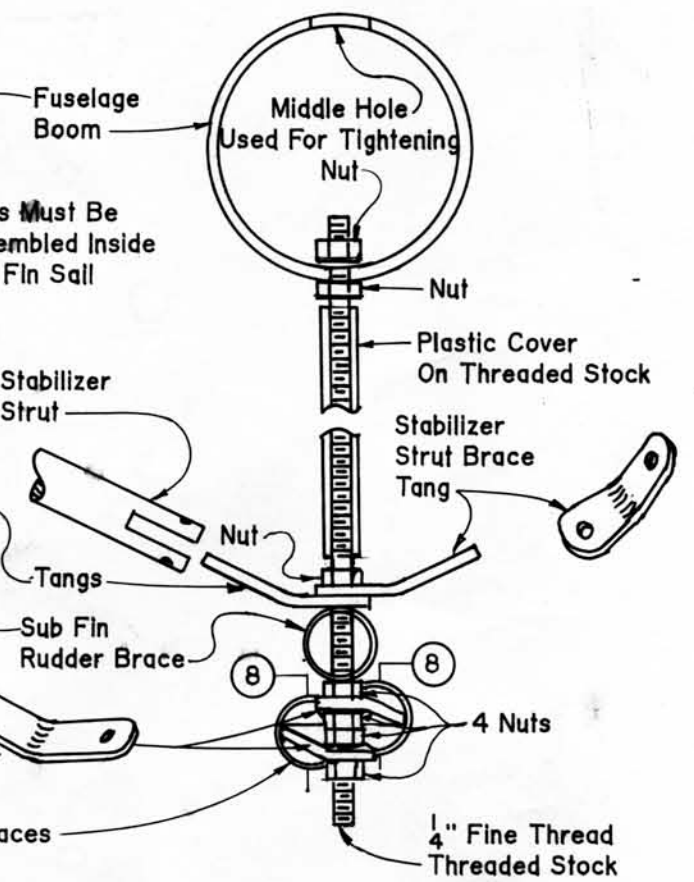
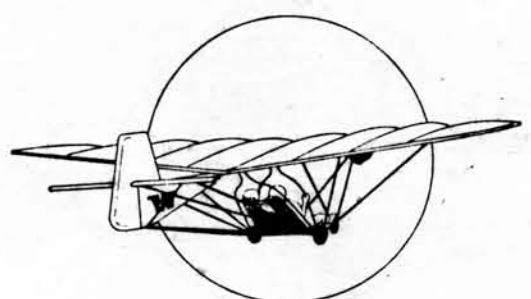
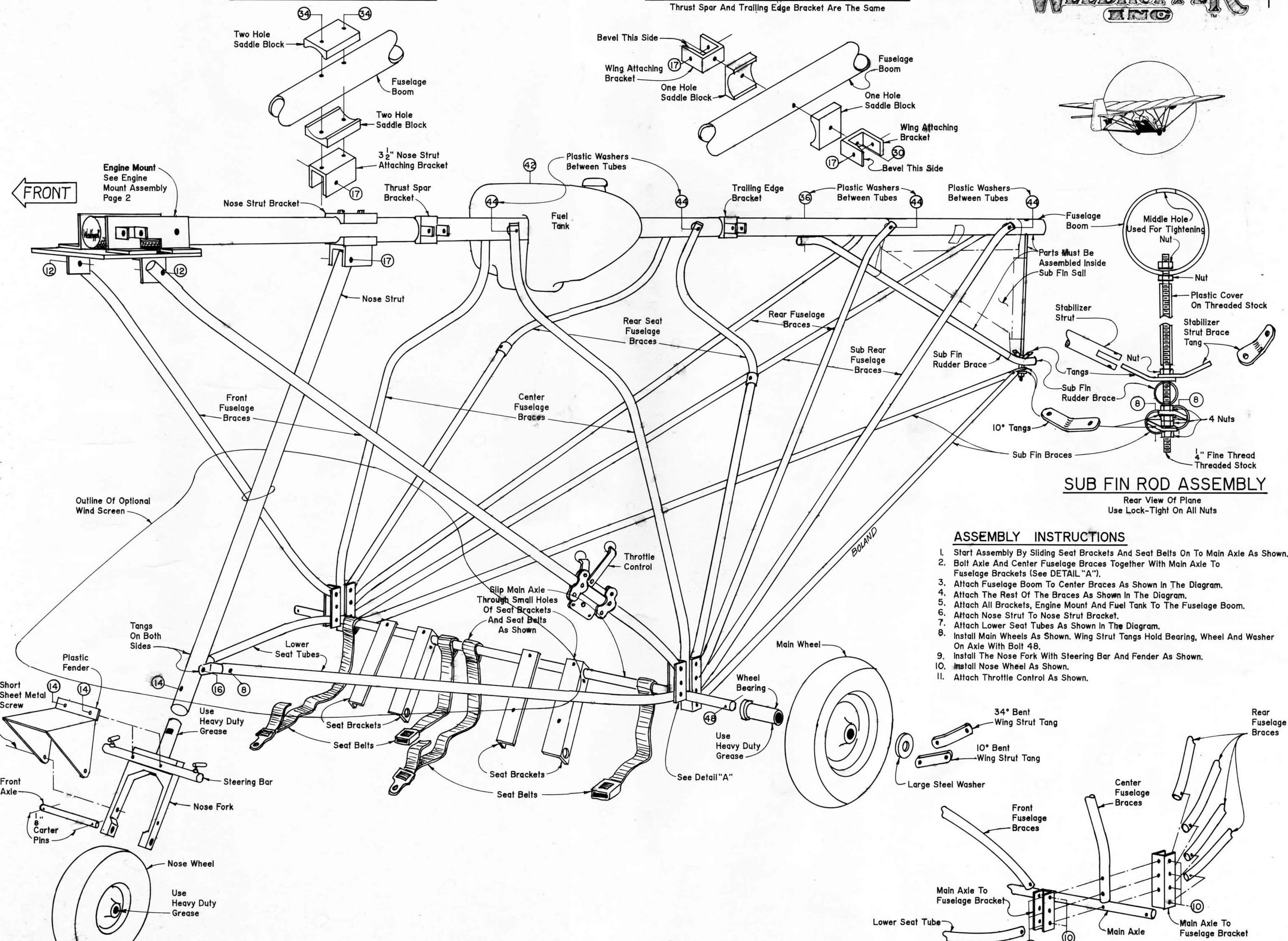
BOLT CHART

I. D. No.	Description	I. D. No.	Description
1	AN 4 - 05 A	26	AN 4 - 32 A
2	AN 4 - 06 A	27	AN 4 - 33
3	AN 4 - 07	28	AN 4 - 33 A
4	AN 4 - 10	29	AN 4 - 34
5	AN 4 - 10 A	30	AN 4 - 34 A
6	AN 4 - 11 A	31	AN 4 - 35
7	AN 4 - 12 A	32	AN 4 - 35 A
8	AN 4 - 13 A	33	AN 4 - 36
9	AN 4 - 14 A	34	AN 4 - 36 A
10	AN 4 - 15 A	35	AN 4 - 37
11	AN 4 - 16	36	AN 4 - 37 A
12	AN 4 - 16 A	37	AN 4 - 40
13	AN 4 - 17 A	38	AN 4 - 40 A
14	AN 4 - 20 A	39	AN 4 - 41
15	AN 4 - 21 A	40	AN 4 - 42 A
16	AN 4 - 22 A	41	AN 4 - 45 A
17	AN 4 - 23 A	42	AN 4 - 46 A
18	AN 4 - 24 A	43	AN 4 - 50
19	AN 4 - 25 A	44	AN 4 - 50 A
20	AN 4 - 25	45	AN 4 - 51 A
21	AN 4 - 26 A	46	AN 4 - 53 A
22	AN 4 - 27 A	47	AN 4 - 54 A
23	AN 4 - 30	48	AN 5 - 16 A
24	AN 4 - 30 A	49	AN 5 - 40 A
25	AN 4 - 32	50	AN 5 - 44 A

NOSE STRUT BRACKET

WING CONNECTING BRACKETS

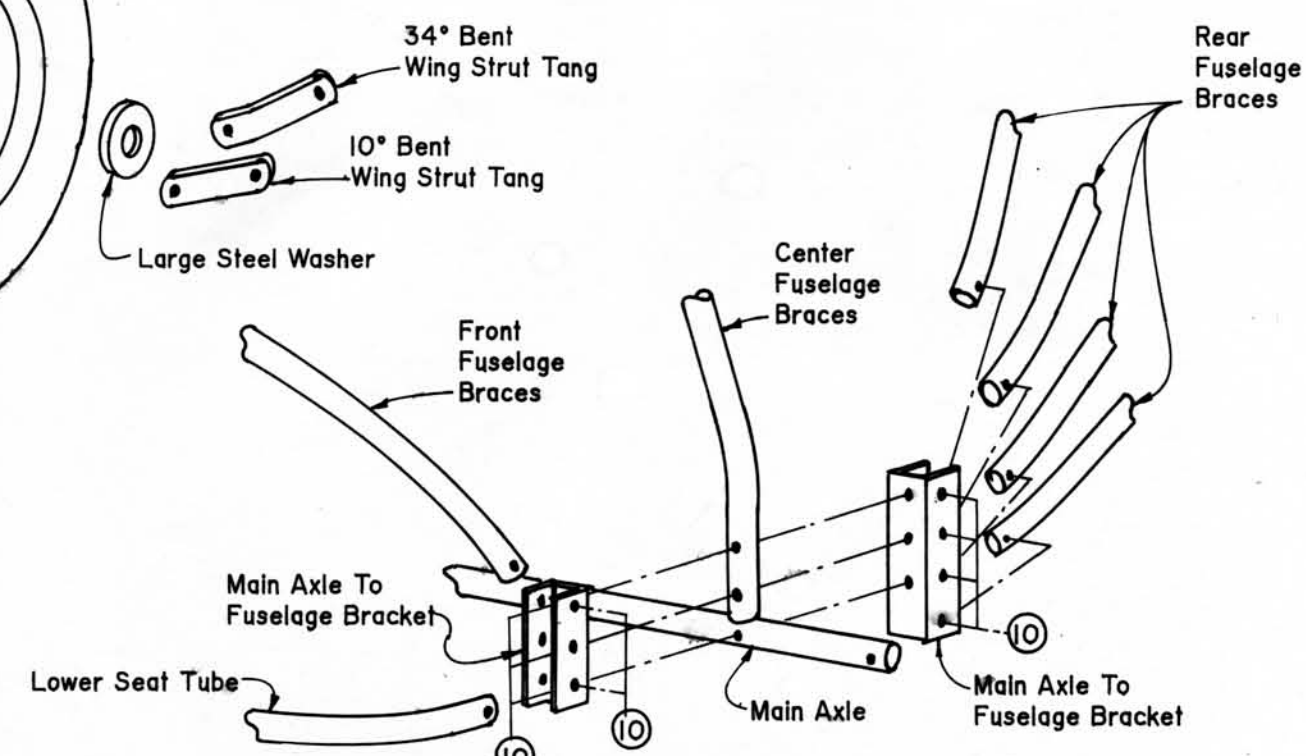
Thrust Spar And Trailing Edge Bracket Are The Same



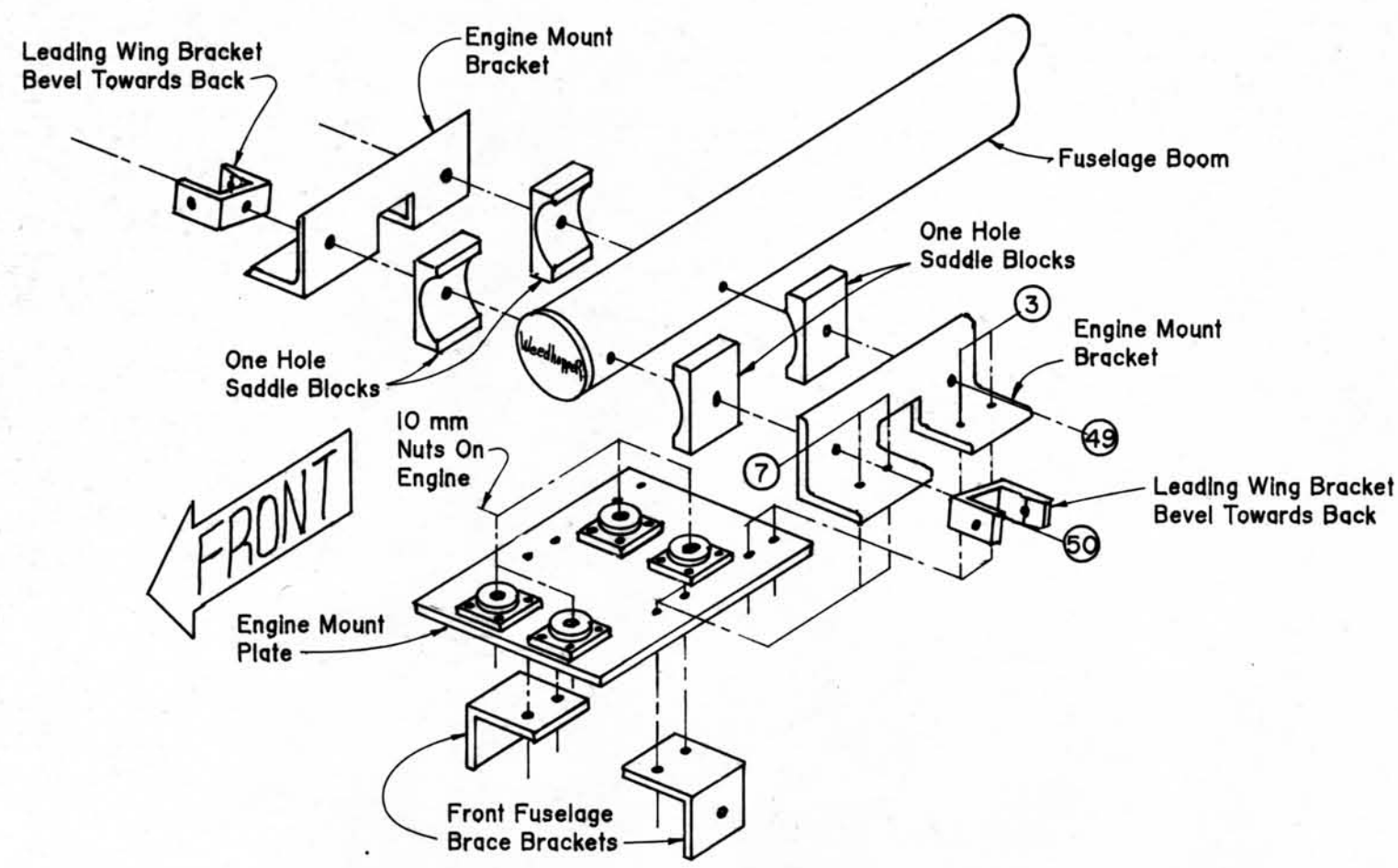
SUB FIN ROD ASSEMBLY
Rear View Of Plane
Use Lock-Tight On All Nuts

ASSEMBLY INSTRUCTIONS

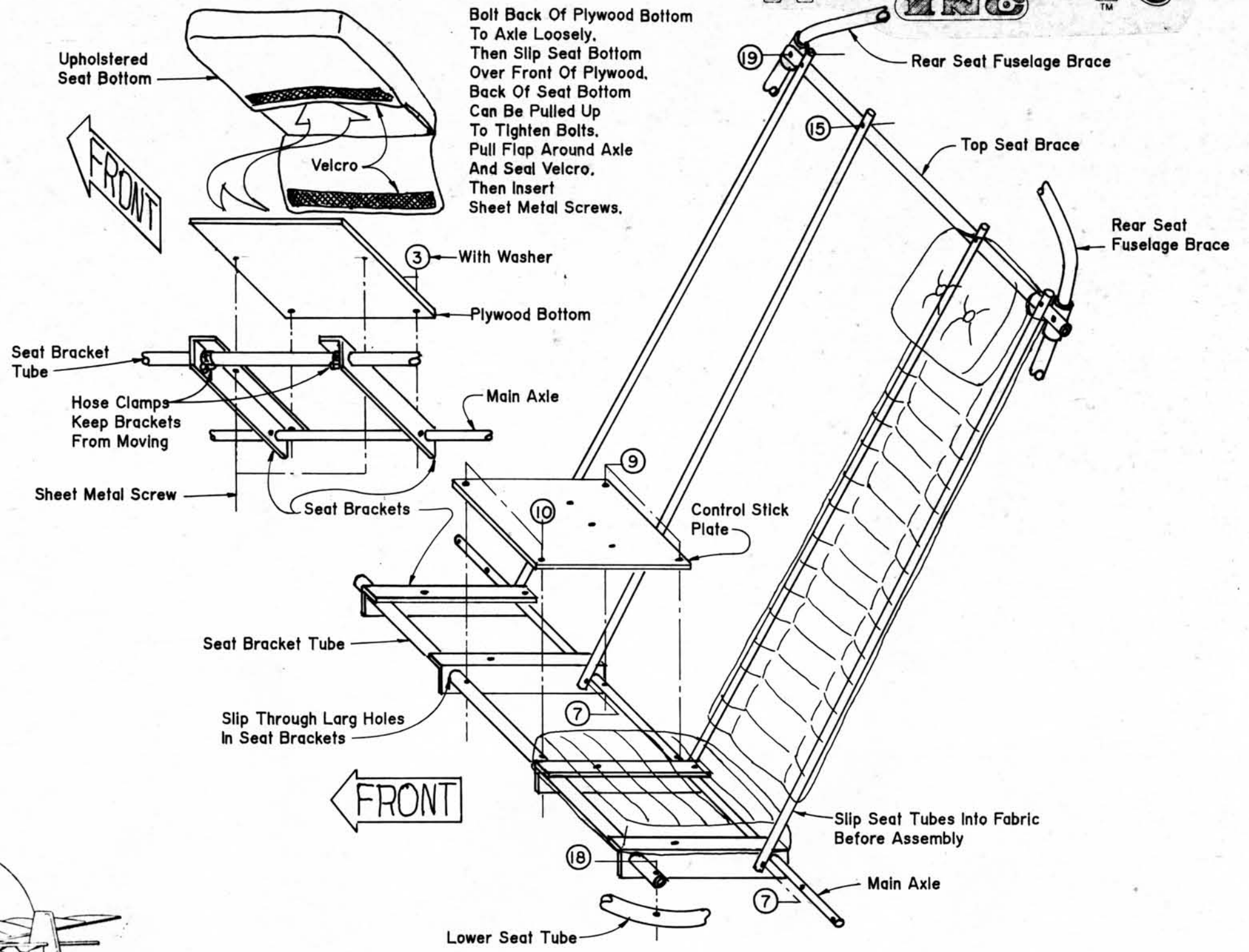
1. Start Assembly By Sliding Seat Brackets And Seat Belts On To Main Axle As Shown.
2. Bolt Axle And Center Fuselage Braces Together With Main Axle To Fuselage Brackets (See DETAIL "A").
3. Attach Fuselage Boom To Center Braces As Shown In The Diagram.
4. Attach The Rest Of The Braces As Shown In The Diagram.
5. Attach All Brackets, Engine Mount And Fuel Tank To The Fuselage Boom.
6. Attach Nose Strut To Nose Strut Bracket.
7. Attach Lower Seat Tubes As Shown In The Diagram.
8. Install Main Wheels As Shown. Wing Strut Tangs Hold Bearing, Wheel And Washer On Axle With Bolt 48.
9. Install The Nose Fork With Steering Bar And Fender As Shown.
10. Install Nose Wheel As Shown.
11. Attach Throttle Control As Shown.



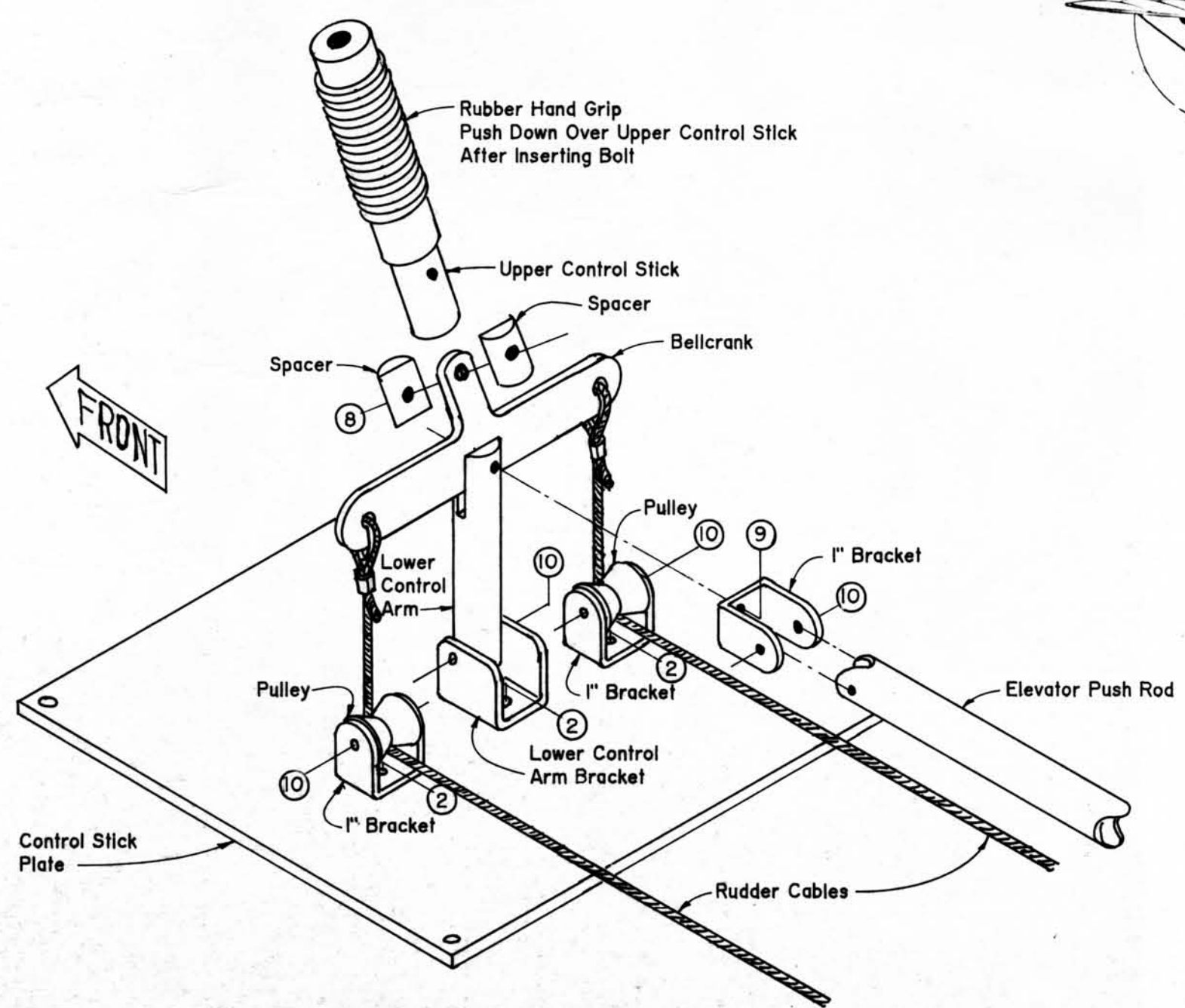
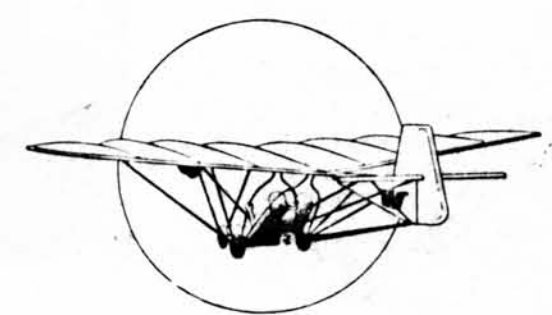
FUSELAGE ASSEMBLY



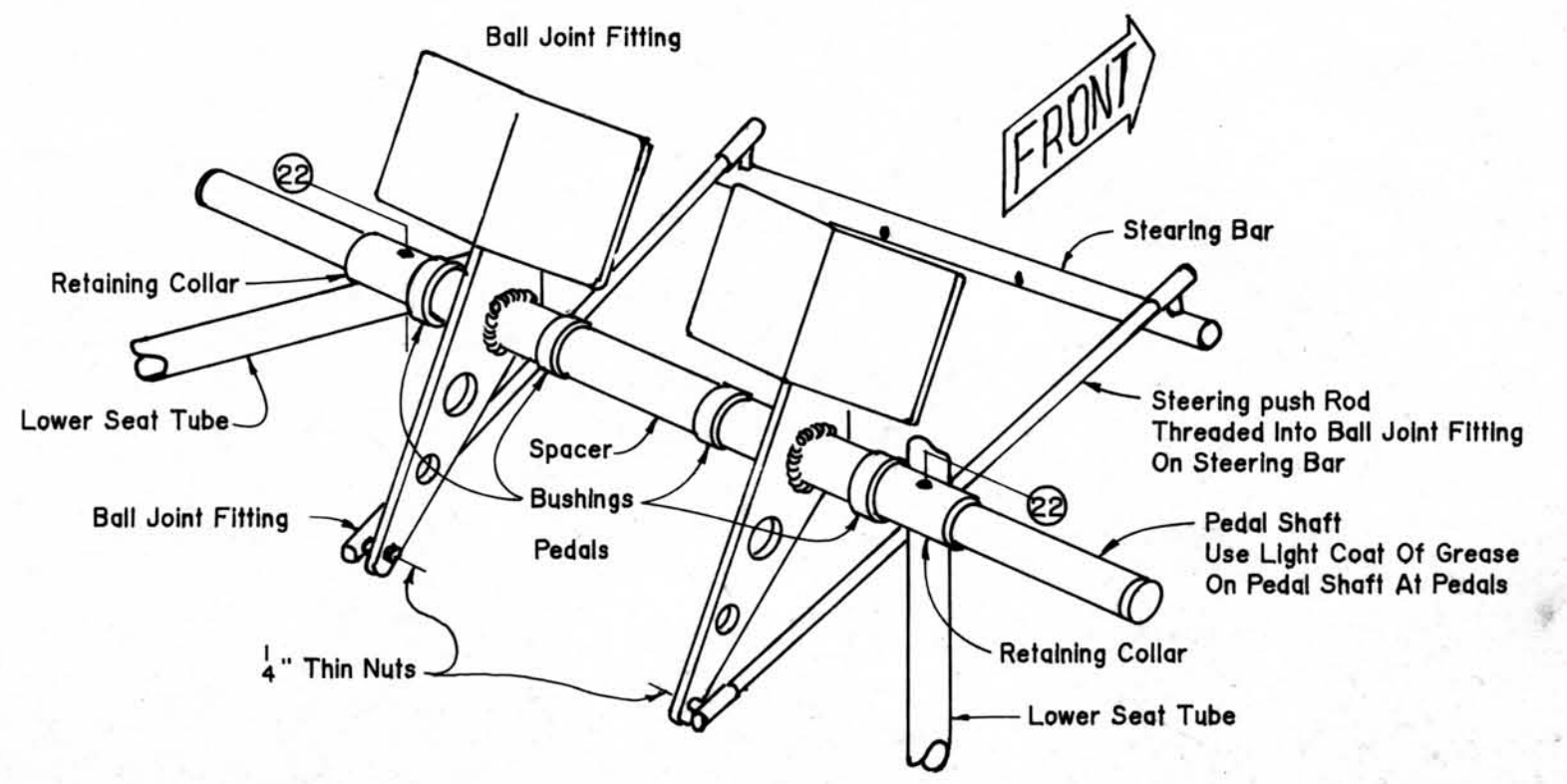
2 ENGINE MOUNT ASSEMBLY



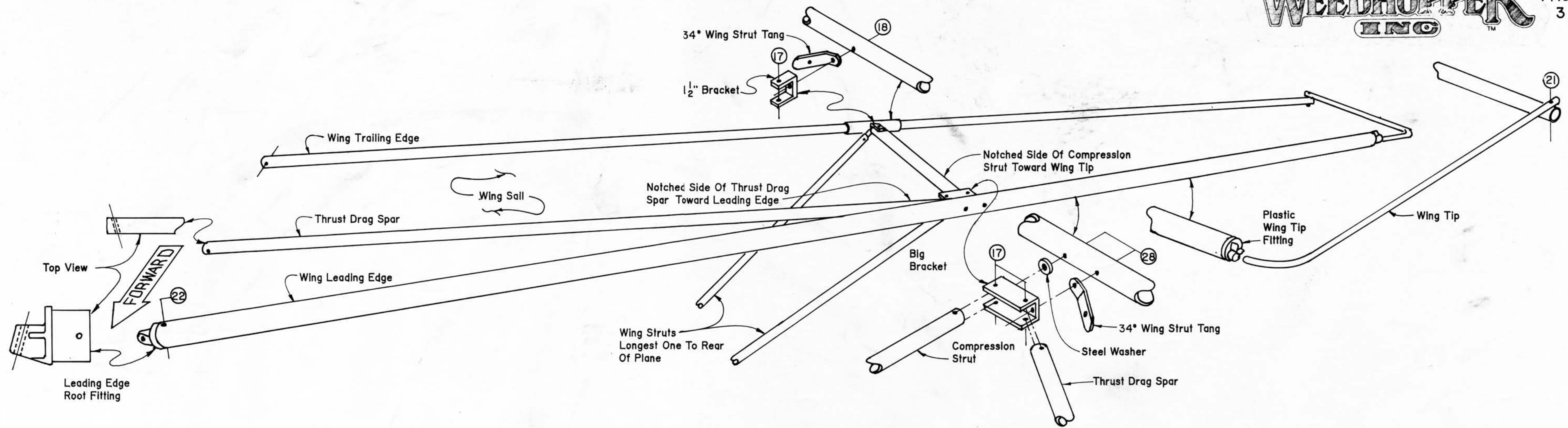
4 SEAT ASSEMBLY



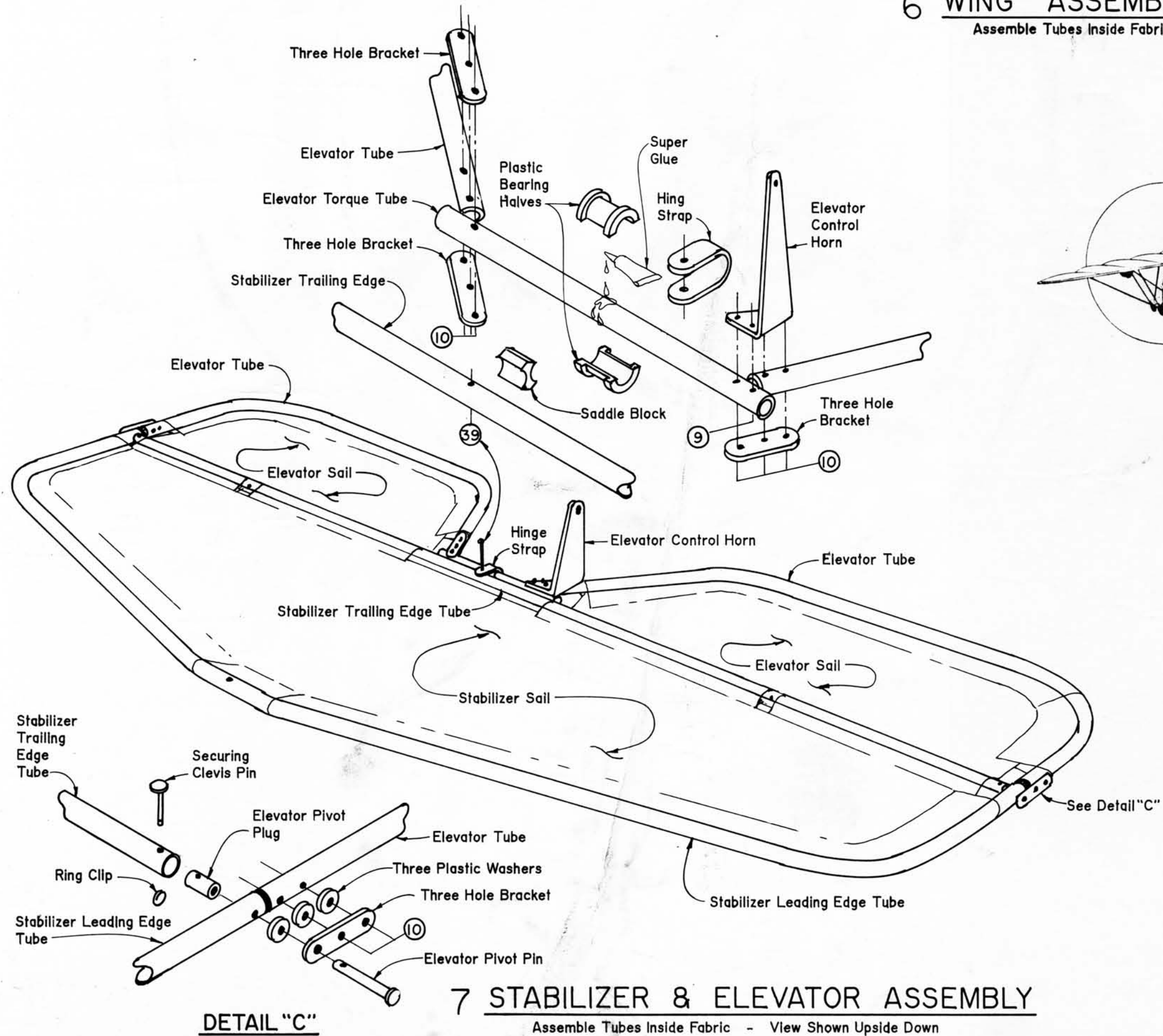
3 CONTROL STICK ASSEMBLY



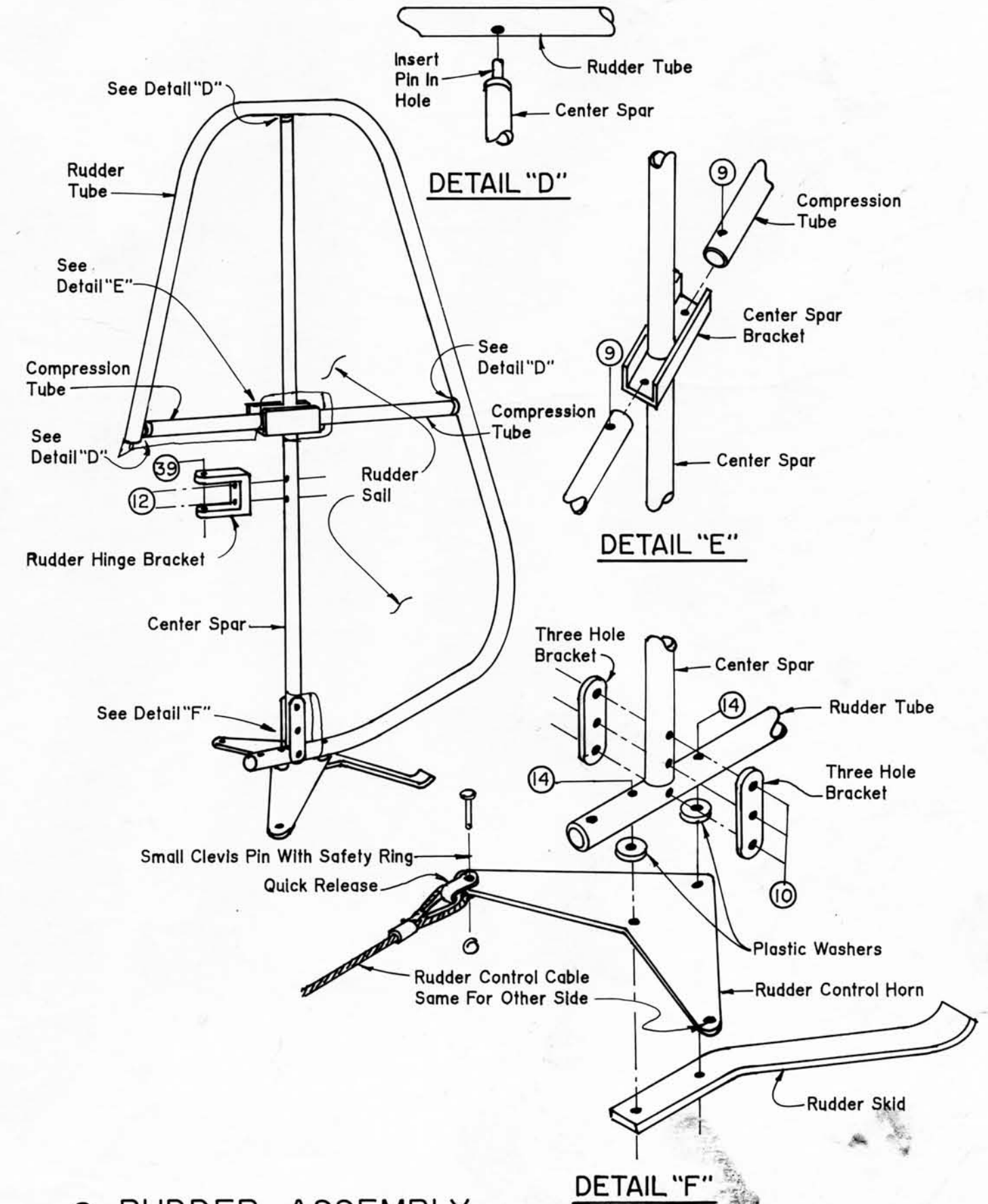
5 PEDDLE ASSEMBLY



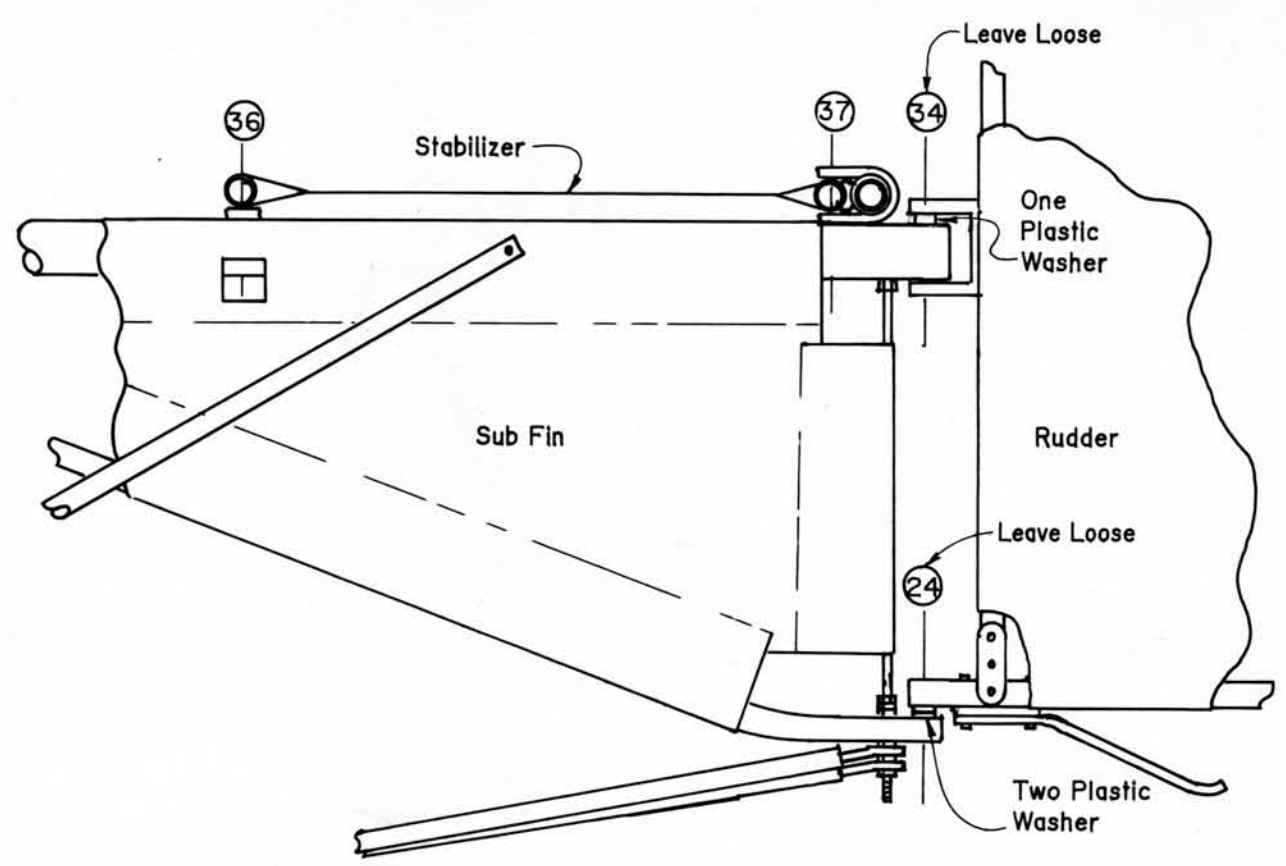
6 WING ASSEMBLY
Assemble Tubes Inside Fabric



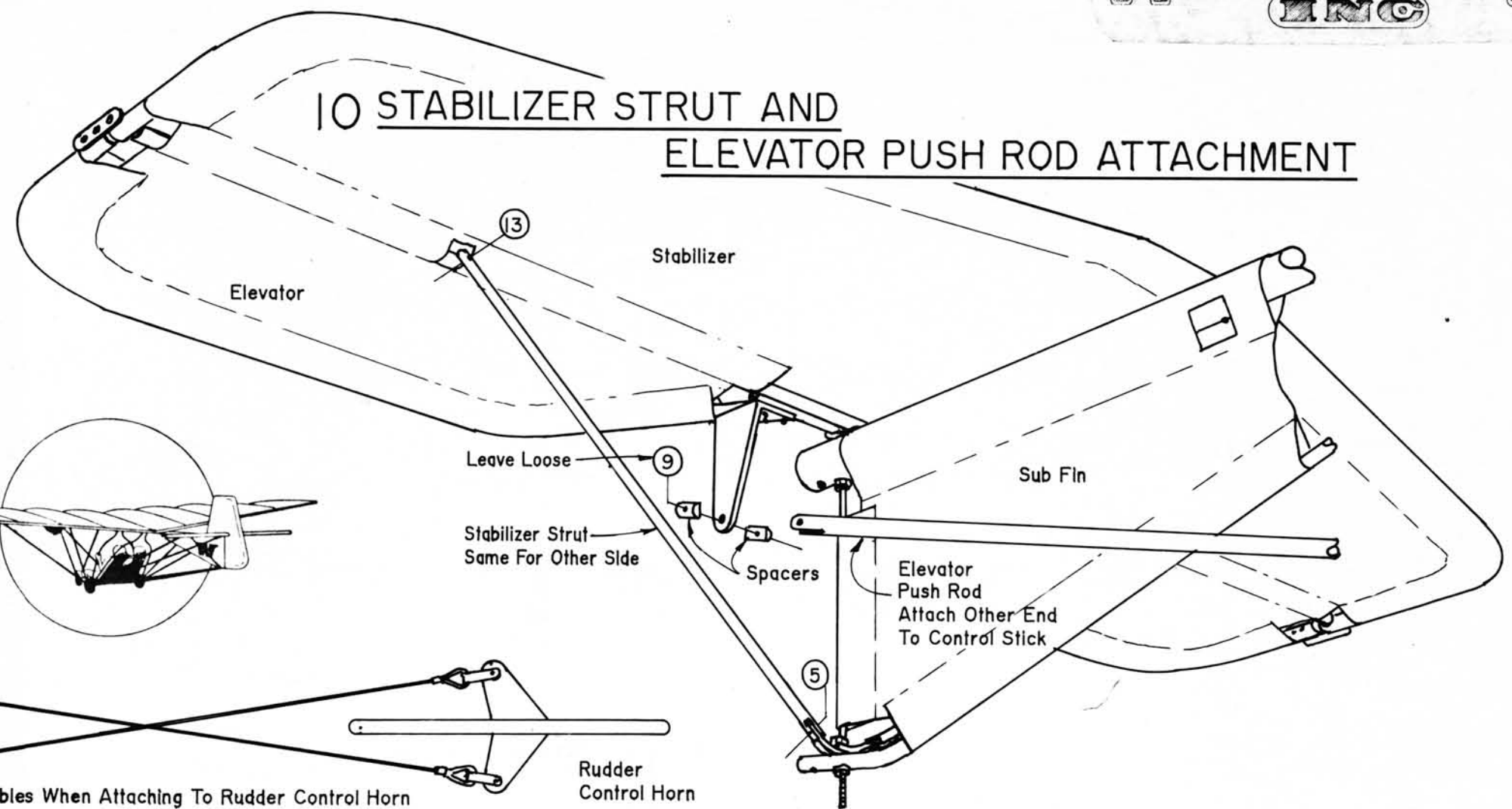
7 STABILIZER & ELEVATOR ASSEMBLY
Assemble Tubes Inside Fabric - View Shown Upside Down



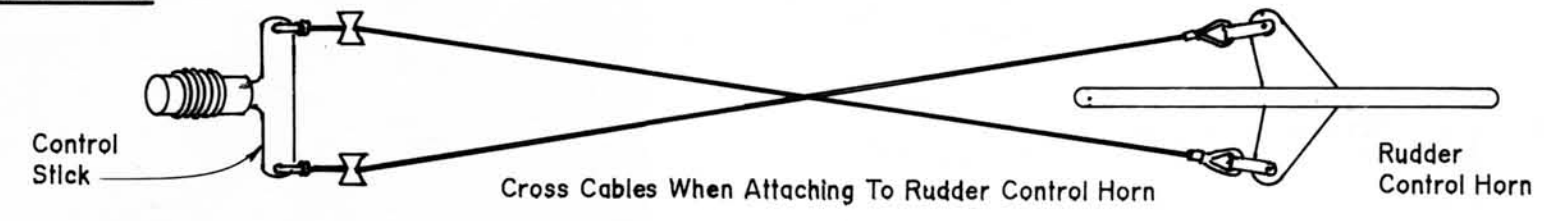
8 RUDDER ASSEMBLY
Assemble Tubes Inside Fabric



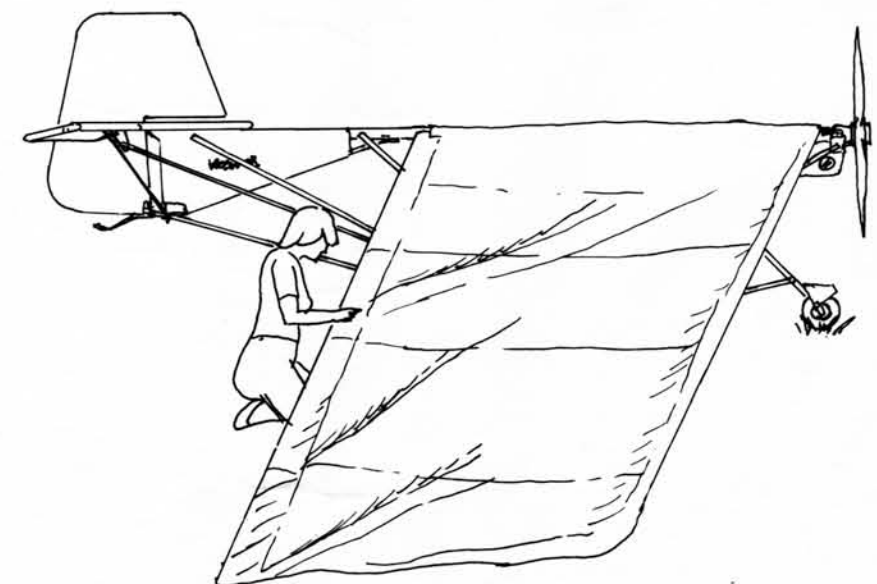
9 STABILIZER AND RUDDER ATTACHMENT



10 STABILIZER STRUT AND ELEVATOR PUSH ROD ATTACHMENT

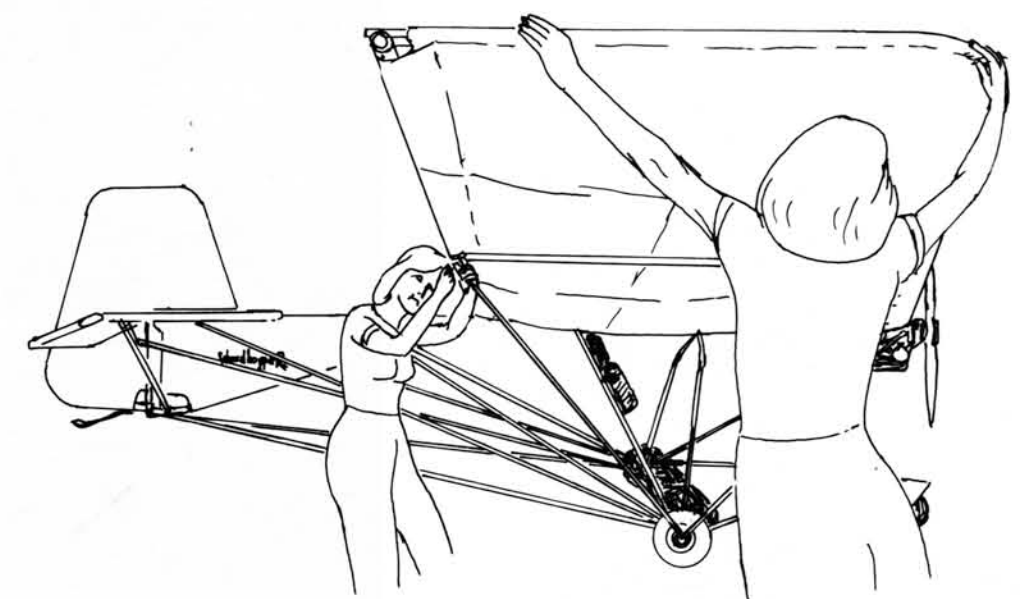


11 RUDDER CABLE ATTACHMENT



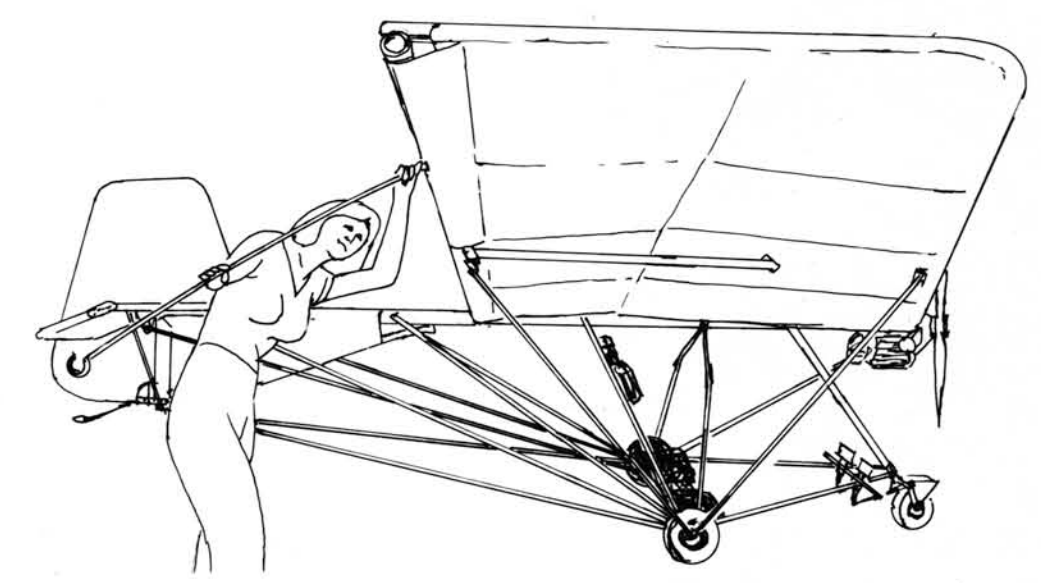
12 WING ATTACHMENT

Drape Wings Over Fuselage And Attach Leading Edge, Trailing edge And Thrust Drag Spar With AN4-23A Bolts And Nuts On Both Sides (6 Places Total).
 Often It Is Necessary To Carefully Smooth And Center The Fabric To Avoid Pulling Too Tight.
 Be Sure To Swing The Compression Strut Straight Befor Pulling Trailing Edge Back To Avoid Tearing The Fabric. Attach The Compression Strut At The Trailing Edge With AN4-23A Bolt And Nut.



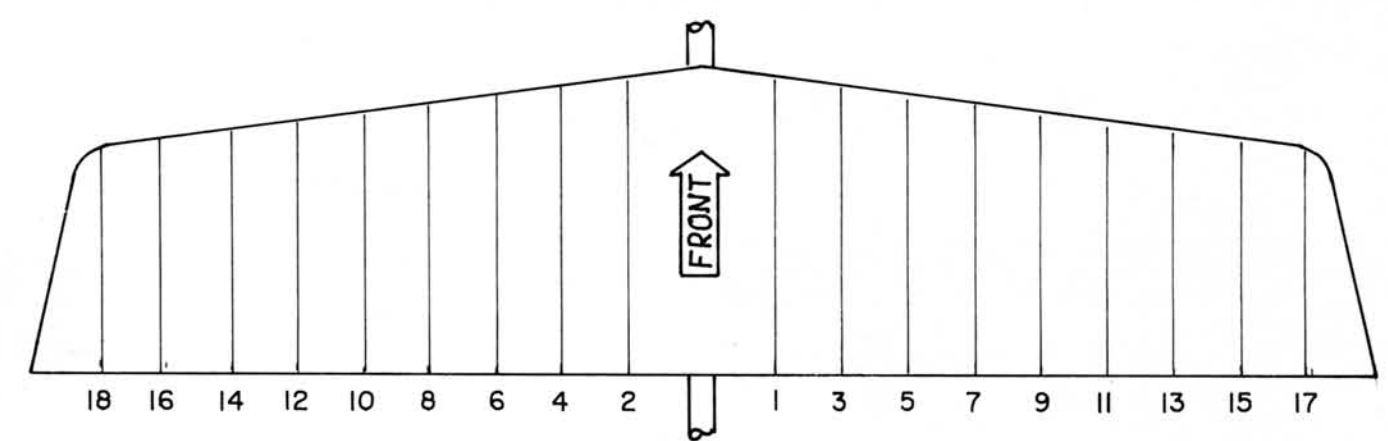
13 WING STRUTS AND WING TIPS INSTALLATION

Attach The Wing Struts At the Main wheel Tangs With AN5-16A Bolt And Nut, (Long Strut Goes To Trailing Edge Of Wing). Lift The Wing At The Center Of The Compression Strut To Avoid Twisting The Wing. Lift Each Strut With Your Foot And Place The Wing Tang In The End Of The Tube. Attach With AN4-14A Bolt And Nut Front And Rear.
 Slide The Wing Tips In And Guide The Front Into The Plastic Socket At The Leading Edge. Attach At The Trailing Edge With AN4-25A Bolt And Nut.

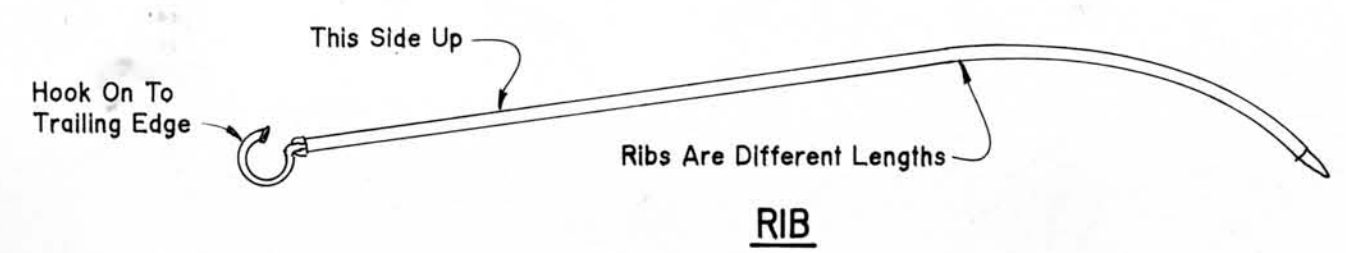


14 RIB INSTALLATION

Use Diagram Below For Rib Installation Sequence. Each Rib Should Be Inserted In The Proper Slot According To Its Length. Slide The Ribs Into The Slot Under Trailing Edge.



WING RIB LAYOUT



RIB

WARNING !!!

DO NOT ATTEMPT TO DO AEROBATICS IN THIS ULTRALIGHT !

ANY MANEUVERS WHICH EXCEED 30° NOSE UP OR DOWN, OR 60° BANK ANGLE ARE STRICTLY !!! PROHIBITED !!!