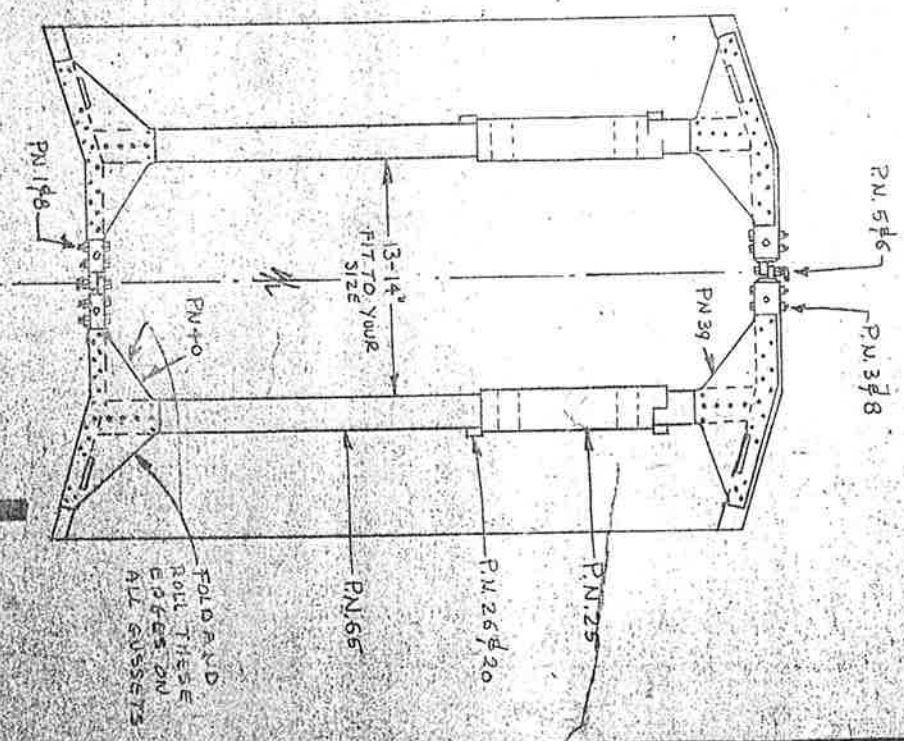
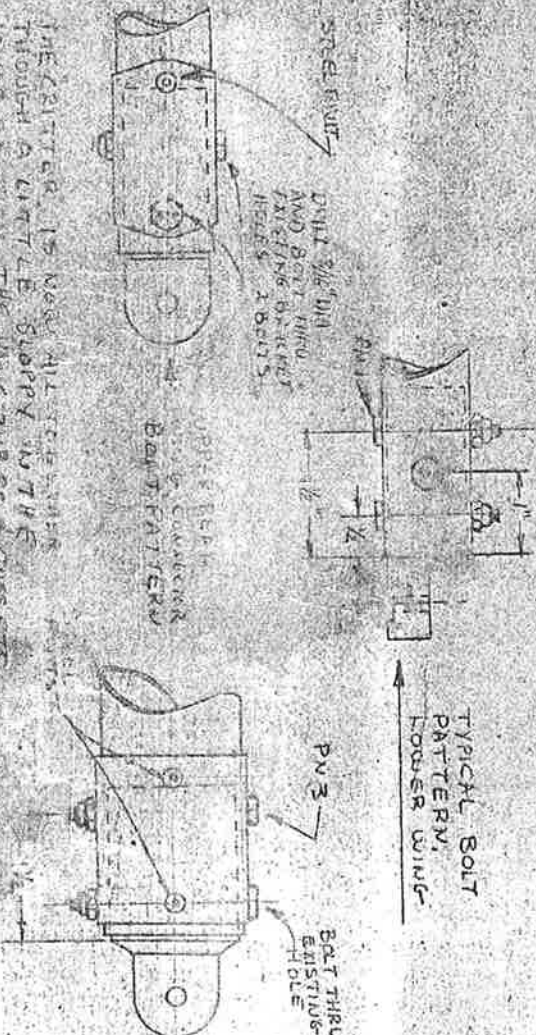


SHEET 6 FINAL ASSEMBLY

- 1) FIT WINGS TOGETHER IN CENTER** REFER TO MATERIAL LIST FOR BOLTS, NUTS, WING CONNECTORS & HANG TUBES. ALL FOUR SPARS WILL MEET SIMULTANEOUSLY IF THE LEADING EDGES OF BOTH WINGS ARE BLOCKED UP ABOUT 1 FOOT. THE TRAILING EDGE RESTING ON THE FLOOR. DEBURR INSIDE EDGES OF ALL 8 SPAR ENDS AND INSERT WING CONNECTORS IN PLACE. PWS 23 & 24. THE UPPER CONNECTORS FIT IN 1 WAY ONLY. FIT BOLTS & NUTS 6 & 7. THE LOWER WING CONNECTORS FIT SO THAT THE BOLTS PWS 5 & 6 AS HINGE PWS. (ON ASSEMBLY, THE LOWER BOLTS CONNECTING BOTH WINGS TOGETHER ARE PUT IN FIRST, THEN THE WINGS ARE HINGED UPWARDS TO MEET UPPER WING CONNECTORS AND FITTING OF THEIR 2 BOLTS) AS THE SKETCH SHOWS, THE LOWER WING CONNECTORS ARE POINTED UNTIL THE CENTER BOLTS FRONT & REAR FACE EACH OTHER ON THE SAME AXIS FORMING A HINGE. GET THIS.
- 2) FIT ALL 4 PAIRS OF WING CONNECTORS IN PLACE** SUCH THAT THEY ARE FLUSH WITH SPAR ENDS OR PROTRUDE A MAXIMUM OF $\frac{1}{8}$ ". YOU MAY HAVE TO SLIGHTLY TRIM THE SPAR ENDS TO ACCOMPLISH THIS WHEN ALL LOOKS GOOD, PUT OVER ALUMINUM ROD-RIVET IN EACH CONNECTOR TO LOCK IN PLACE ON SPAR. EVERYTHING SHOULD BE SQUARE & TRUE, YOU MAY HAVE TO SLIGHTLY ADJUST ANGLES OF LOWER SPARS SO THE ENDS LINE UP TOGETHER STRAIGHT. YOU CAN BEND SPARS SLIGHTLY BY SMALL SHARP BENDS RATHER THAN A GREAT HARD PULL. KEEP IN MIND SQUARING OF THE SPARS.
- 3) BOLT WING CONNECTORS TO SPARS PERMANENTLY** LOWER BOLTS ARE INSTALLED AS SHOWN ON DRAWING. BE SURE TO GO THROUGH CONNECTORS AS SQUARELY AND AS CENTERED AS POSSIBLE.



IMPORTANT
AFTER FINISHING STEP 6
PWS 8 & 9 ARE BOLTS FOR
THE LOWER WING. THEY
ARE USED TO HOLD THE
WING TO THE SPAR. THEY
ARE CHECKED FOR TIGHTNESS
FOR POWER RIVETING AND
SURGE.

THE CENTER IS NOW ALL SET. THERE IS A LITTLE SLIPPERY IN THE LOWER SECTION. THE HANG TUBES & GUSSETS WILL FINISH THE JOB.

4) SPACING OF HANG TUBES IF THERE'S A HANG TUBE MISSING, PUT ONE IN WITH SPARS. SWEEP A LINE FROM THE BODY UNDER THE SPARS. PWS 1 & 2. LIKE HANG TUBES BETWEEN SPARS. SAW HOLES OR CHAIRS AND PUT YOURSELF BETWEEN THEM AND MEASURE FOR A GOOD FIT. AN ALIENGE TUBE IS 1 1/2" BETWEEN AND EDGES OF TUBES. MAKE TWO STRUT BRACKETS FROM 1/2" ALUMINUM. PUT TUBES IN PLACE AS PER SKETCH. COVE AND TAPE APPROPRIATE. RIVET IN PLACE.

5) REMOVE LOWER INBOARD STRUT BRACKETS by DRILLING OUT RIVETS. THE SLOTTED GUSSETS GO ON TOP WITH STRUT BRACKETS GOING THROUGH SLOT. YOU WILL NOTE THAT EDGES OF GUSSETS WHICH RIVET TO SPARS WILL BE PULLED INTO A CURVE TO FIT TIGHTLY AGAINST SPAR. BEST TO PRE-FORM EDGES OF ALL GUSSETS. MAKE A PENCIL MARK ABOUT 1/2" FROM EDGE OF GUSSET. LAY GUSSET OVER EDGE OF SPAR AND FORM CURVE BY LIGHTLY HAMMERING. FIRST WITH GUSSET ABOUT 1/2" BEYOND EDGE OF SPAR. PROGRESSIVELY MOVE GUSSET OUT AND TAPPING UNTIL 1/2" MARK IS REACHED.

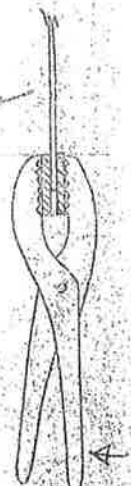


KEEP FITTING & FORMING UNTIL GUSSET FITS NICELY AGAINST SPAR. FIT STRUT BRACKET THROUGH SLOT AND PUT IN ITS LOCATION TO CHECK FORM AND FIT WHILE FITTING GUSSETS.

5) PUT TOP GUSSET IN PLACE AFTER FITTING STRUT BRACKET THROUGH SLOT

RIVET STRUT BRACKET IN PLACE

WITH STEEL RIVETS (ALL SIDES). RIVET UPPER GUSSET IN PLACE. FOLLOWING WITH FIFTEEN IN WITH SKETCH ABOVE. STEEL RIVETS START IN TUBO ABOUT 1/8" FROM EDGE OF GUSSET. BY MARKING & LINE 3/8" FROM EDGE. CLAMP A COUPLE PIECES OF HARDWOOD OR ALUMINUM UP TO THE MARK WITH VICE GAPS OR PERSIS AND FOLD DOWN AS FAR AS YOU CAN EASILY.



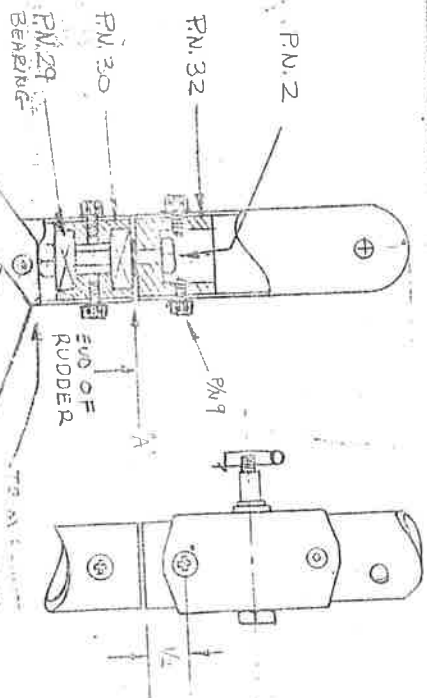
3) TIP WING UP SO YOU CAN WORK

ON BOTTOM. FORM AND FIT LOWER GUSSETS CAREFULLY. BE SURE TO FORM AROUND STRUT BRACKETS. DO IT WITH STEEL & YOU ARE DONE.

UFM EASY RISER

ENGINEERING	DATE	SPECIFICATION
LARRY MAURO	3/29/76	FINAL ASSY

SHEET 7 RUDDER



① PICK PARTS AS LISTED ON MATERIAL LIST.

② STRUT NO. 69 WILL BE MADE INTO RUDDERST.

STRUT WILL HAVE DIAGONAL STRUT BRACKET PM 33 AT THE UPPER END.

MEASURE $\frac{1}{2}$ " DOWN FROM CENTER OF LOWER POP-RIVET HOLE AND CUT TUBE OFF SQUARE AS SHOWN. MARK AND DRILL THE HOLE OUT TO $\frac{3}{16}$ " FOR SCREW PM 3. USE LOCK WIRE. DRILL OPPOSITE HOLE FOR 2ND SCREW. USE LOCK WIRE.

③ REMAINING TUBE IS ASSEMBLED INTO A RUDDER. LAY THE TUBE DIRECTLY OVER THE FULL SCALE BLUEPRINT. USE A HALF DOZEN OR SO NAILS TO HOLD TUBE IN PLACE WITH ONE END AT POSITION 'A'. THE OTHER END IS EXTRA LONG IT WILL BE TRIMMED LATER.

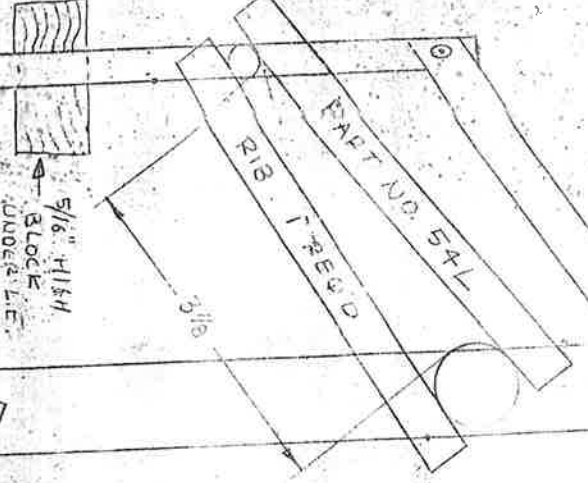
④ CUT LEADING EDGE (L.E.) AND TRAILING EDGE (T.E.) TUBES TO LENGTH AS SHOWN AND ALSO NAIL IN PLACE PLACING NAILS ALONG SIDES $\frac{1}{4}$ " AT EACH END.

⑤ FIT REAR RIBS PM 55 IN PLACE AND RIVET WITH ALUMINUM RIVETS. BLOCK-UP TRAILING-EDGE WITH $\frac{5}{16}$ " BLOCKS UNDER EACH END. PUT 1 ALUMINUM RIVET IN TUBE AND PUT RIVET IN END ABOUT $\frac{1}{4}$ " FROM END.

BE SURE TO HOLD TUBES DOWN. SECURELY AND FIT RIBS TIGHTLY AGAINST TUBES AND BEFORE DRILLING HOLES AND RIVETING. TURN RIBS OVER. COMPLETELY RIVET REAR RIBS WITH $\frac{5}{16}$ " SECTION.

⑥ FIT FRONT RIBS IN PLACE. OVER REAR RIBS TAKE L.E. IN PLACE WITH $\frac{5}{16}$ " BLOCKS IN PLACE. RIVET TO L.E. AND TO MAIN TUBE WITH POP RIVETS AS SHOWN.

⑦ LIGHTLY HAMMER ENDS OF RIBS TO FORM AROUND L.E. & T.E. FILE OFF SHARP EDGES.

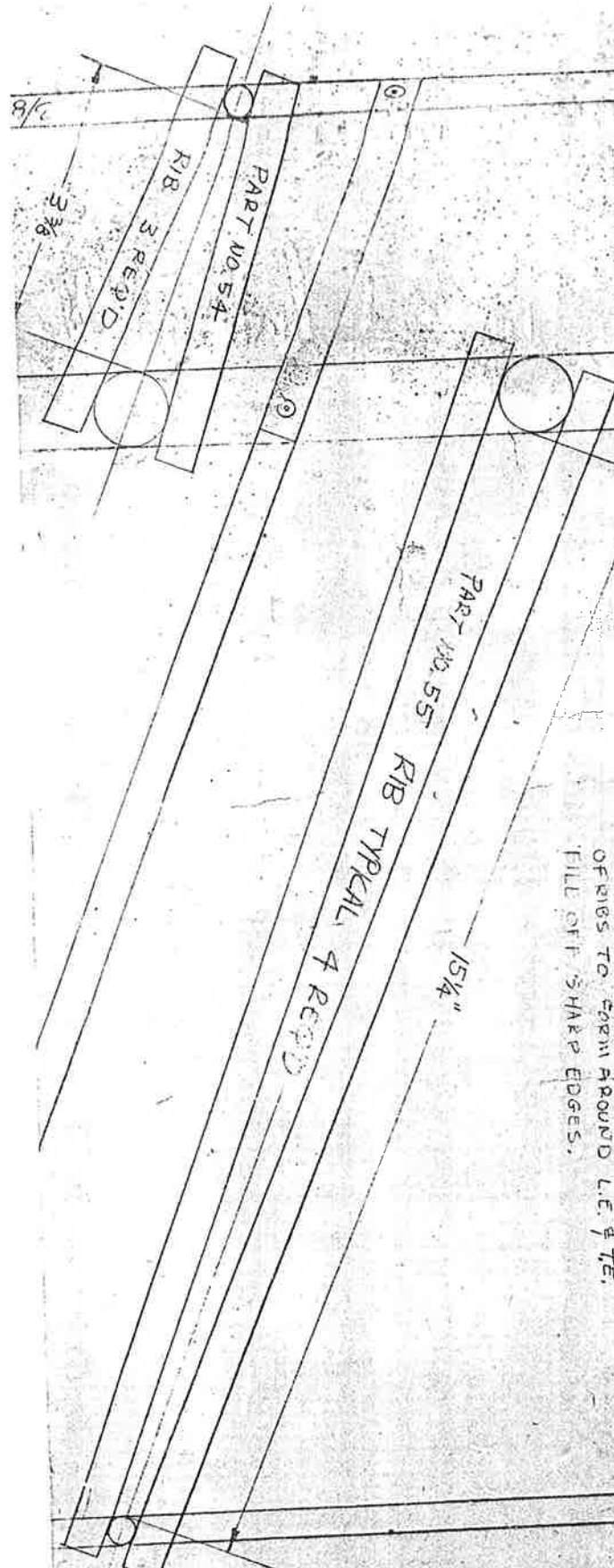


$\frac{5}{16}$ " HIGH BLOCK UNDER L.E.

15 1/4"



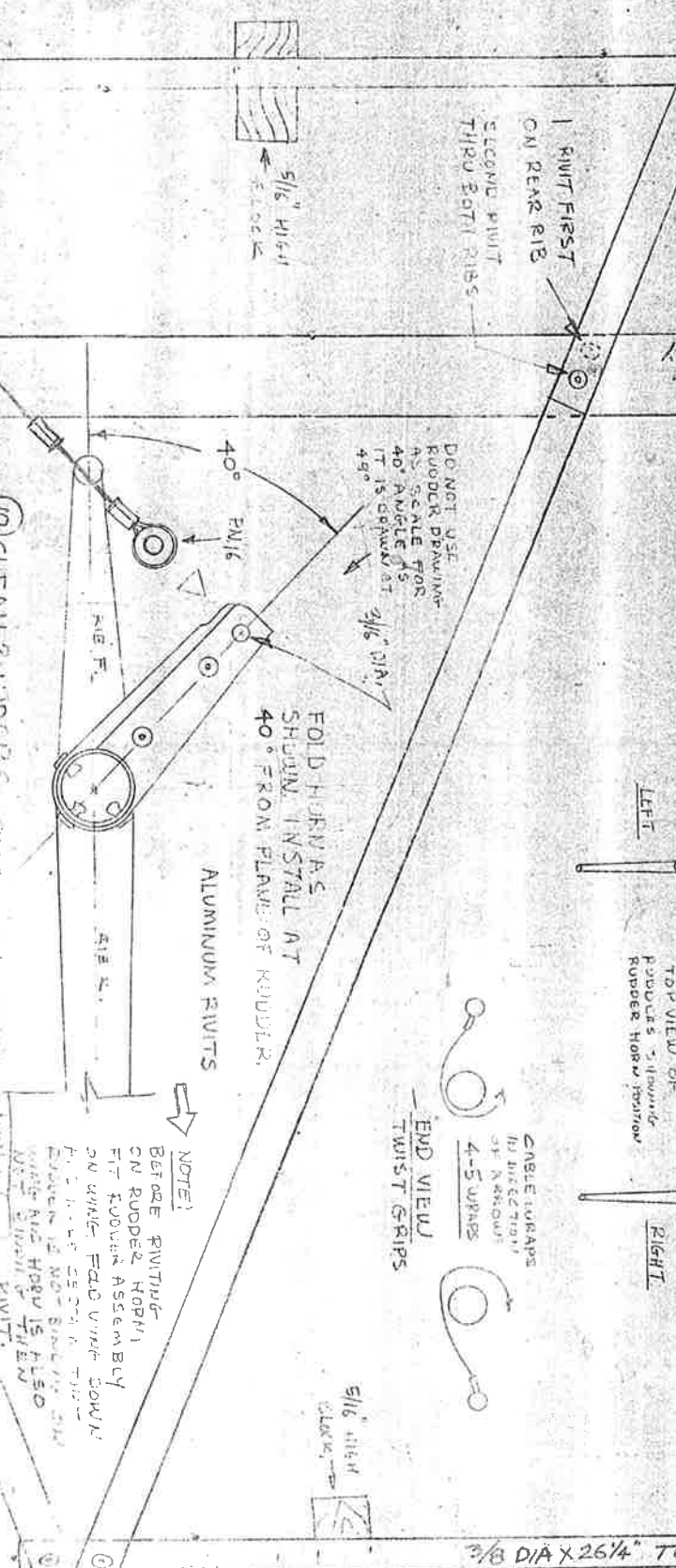
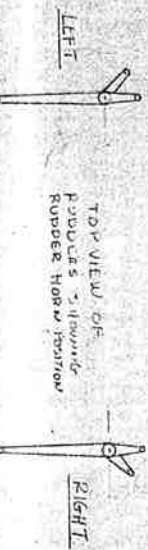
$\frac{5}{16}$ " HIGH BLOCK



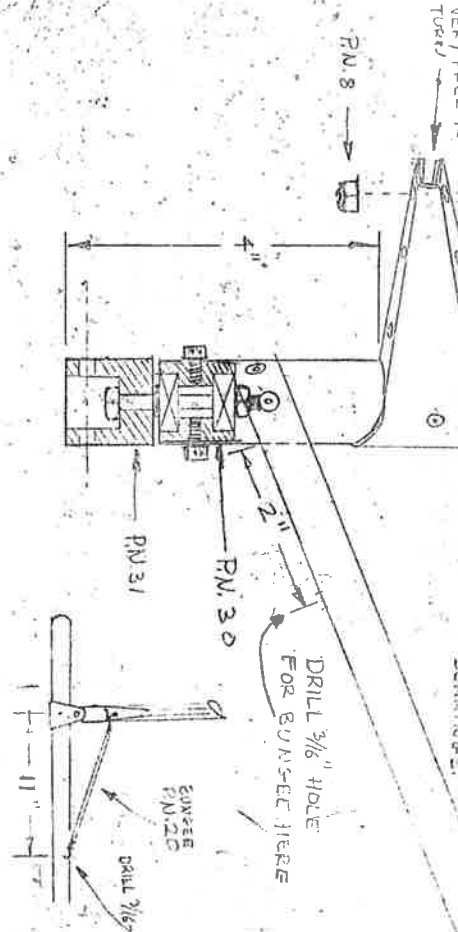
(8) DRILL THE HOLES IN UPPER END OF RUDDER. FIRST, TAKE RUDDER BEARING ASSEMBLIES OFF AND SAVE TO PUT IN THE RUDDER SO HORNS GO ON OPPOSITE SIDES OF RESPECTIVE RUDDERS. RIVET AS SHOWN AT 40° FROM PLANE OF RUDDER. THE OPEN NOTCH OF HORN FACES TOWARD RUDDER PLANE AND TOWARD PILOT AS INSTALLED ON THE LHS. DRILL $\frac{3}{16}$ " HOLES $\frac{1}{4}$ " ABOUT BEARING.



(9) INSTALL RUDDER HORN. FIRST, TAKE RUDDER BEARING ASSEMBLIES OFF AND SAVE TO PUT IN THE RUDDER SO HORNS GO ON OPPOSITE SIDES OF RESPECTIVE RUDDERS. RIVET AS SHOWN AT 40° FROM PLANE OF RUDDER. THE OPEN NOTCH OF HORN FACES TOWARD RUDDER PLANE AND TOWARD PILOT AS INSTALLED ON THE LHS.



(10) CLEAN RUDDERS. FIRST, TAKE RUDDER BEARING ASSEMBLIES OFF AND SAVE TO PUT IN THE RUDDER SO HORNS GO ON OPPOSITE SIDES OF RESPECTIVE RUDDERS. RIVET AS SHOWN AT 40° FROM PLANE OF RUDDER. THE OPEN NOTCH OF HORN FACES TOWARD RUDDER PLANE AND TOWARD PILOT AS INSTALLED ON THE LHS.



(11) FIT RUDDERS TO HORN. FIRST, TAKE RUDDER BEARING ASSEMBLIES OFF AND SAVE TO PUT IN THE RUDDER SO HORNS GO ON OPPOSITE SIDES OF RESPECTIVE RUDDERS. RIVET AS SHOWN AT 40° FROM PLANE OF RUDDER. THE OPEN NOTCH OF HORN FACES TOWARD RUDDER PLANE AND TOWARD PILOT AS INSTALLED ON THE LHS.

SHEET & DETAILS AND TEMPLATES

1 GAP COVER

FURNISHED IN THE KIT IS ONE PIECE OF CLEAR LEXAN 8"X48" PM.12. THE GAP

BETWEEN THE TWO UPPER WINGS MUST BE COVERED WITH THIS "GAP COVER". WITHOUT IT, GLIDE RATIO & SINK RATE IS CONSIDERABLY REDUCED.

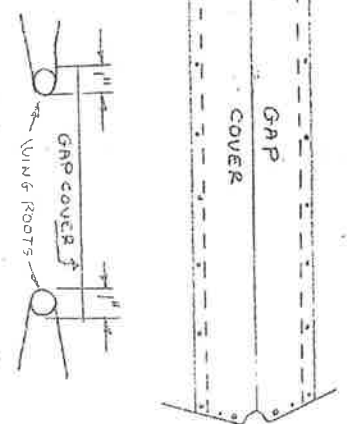
ASSEMBLE THE PLANE COMPLETE. NOW FIT THE COVER ACROSS THE TOP OF THE UPPER WING ROOTS. TRIM FOR A GOOD FIT, OVERLAPPING ROOT TUBES AS SHOWN.

NOW TAKE THE GAP COVER OFF AND MARK A LINE DOWN THE MIDDLE. CAREFULLY CUT IN TWO NEAT PIECES.

TAPE THE 2 HALVES TOGETHER CAREFULLY AND FIT BACK ON PLANE.

TAPE IN PLACE, TRIM FRONT & REAR. REAR CLEARANCE HOLE CAN BE CUT WITH CUTTERS PM.11. USE ALUMINUM POP RIVETS APPROX EVERY 6" AS SHOWN.

FOR PLANE ENDS OR GUNS, BEFORE STRAPPING FIT TIGHTLY AT ALL TIMES. SMALL KNUES OR SCREWDRIVERS REMOVED BY HAND. INNOVATIVELY FIT IN UNDER A WING OR ON REAR WING CLUT.



2 INSPECT ALL TUBING

FOR PLANE ENDS OR GUNS, BEFORE STRAPPING FIT TIGHTLY AT ALL TIMES. SMALL KNUES OR SCREWDRIVERS REMOVED BY HAND. INNOVATIVELY FIT IN UNDER A WING OR ON REAR WING CLUT.

3 HAVE YOUR PLANE INSPECTED

DURING CONSTRUCTION IT IS A GOOD IDEA TO HAVE ANOTHER QUALIFIED PERSON DOUBLE CHECK YOUR ASSEMBLY. THE BEST WOULD BE AN FFA INSPECTOR. CALL THE LOCAL FFA OFFICE AND TELL THEM YOU HAVE AN EXPERIMENTAL AIRCRAFT FOR INSPECTION. MANY HAVE BEEN REGISTERED FOR THE FUTURE PURPOSE OF INSTALLING POWER & OTHER EQUIPMENT.

THE QUALITY PURPOSE OF INSTALLING POWER TO THE WORK IS AN AIRCRAFT ALTERNATE CALLED APP MECHANIC.

4 PROTECTION OF LOWER WING

FROM DAMAGE CAUSED BY TAPPING EDGE OF WINGS WITH 1/2" HOES CLOTH/WIRE TAKE SUCH AS "MYSTIC TAPE" PULLED IN COLOR FROM YOUR LOCAL HANDWARE OR YARN STORE.

5 NICOPRESS TOOLS

FULL STRENGTH OF AIRCRAFT CABLE CAN BE ACCOMPLISHED ONLY BY PROPER SQUARING WITH PROPER TOOLS. THE TOOLS SHOWN ARE RECOMMENDED. WITH NICOPRESS TOOLS, USE ONLY "C" FOR 1/8" CABLE AND "G" FOR 3/32" CABLE, NEVER USE "C" FOR 3/32" CABLE.



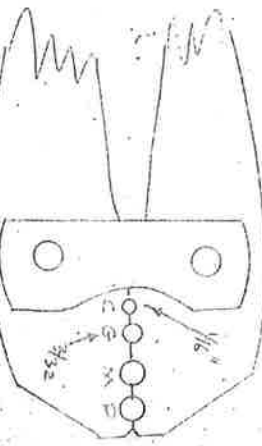
3/32" FROM

NOTE: 1. SLEEVES ARE COMPRESSED LONGWAYS

NO SQUASHING OUT OF SLEEVES ACCEPTABLE. TOOL USED TOO SMALL



THIS IS ONLY ONE CORRECT WAY TO SWAGE NICOPRESS SLEEVES. USE THE CORRECT TOOL. USING THE CORRECT GRIP SIZE ON THE TOOL. NEVER USE ANY OTHER METHOD OR ANY OTHER TOOLS. INSTRUCTIONS ARE FURNISHED WITH EACH TOOL FOR PROPER USE.



NATIONAL TELEPHONE SUPPLY CO. OF CLEVELAND, OHIO. NICOPRESS SLEEVE TOOL MODEL 6-1 GRIP OVAL

6 POP RIVETING

POP RIVETS WILL DEVELOP FULL STRENGTH ONLY IF THE RIVET IS HOLDING THE METAL PARTS TIGHTLY TOGETHER. MOST OF THE STRENGTH IS DEVELOPED BY THE FRICTION OF THE 2 METAL SURFACES TOGETHER. IF THE METAL PARTS ARE SEPARATED, THE RIVET IS UNDER SHEAR LOAD AND MAY BREAK OFF OR PULL OUT.



STROUT - RIGHT



WRONG - WEAR

BEST TOOL IS USM MODEL K-11-1941 "POP" RIVET TOOL.

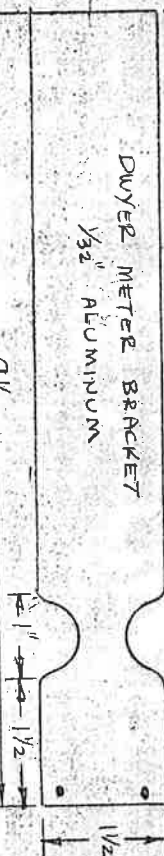
7 COCKPIT PADS FRONT & REAR

THE FRONT & REAR SPARS IN THE PILOT AREA MUST BE PADDED FOR COMFORT AND SAFETY. USE FOAM SLEEPING BAG PADS WHICH ARE 1/2" THICK, 14" WIDE ABOUT 4 FT LONG. WEAR PAD AROUND SPARS AFTER FIRST DOUBLE CHECKING. WING CONNECTOR BOLTS, FOR TIGHTNESS AND THAT LOCK PINS ARE IN PLACE. A COUPLE PAD COVERS OF NUMEROUS 14" WIDE X 16" LONG, USING SNAPS, VELCRO OR STRAPS TO HOLD IN PLACE IN FLIGHT, THE REAR PAD IS YOUR BACK REST. THE PLANE RESTS ON YOUR BACK HERE DURING GROUND HANDLING.

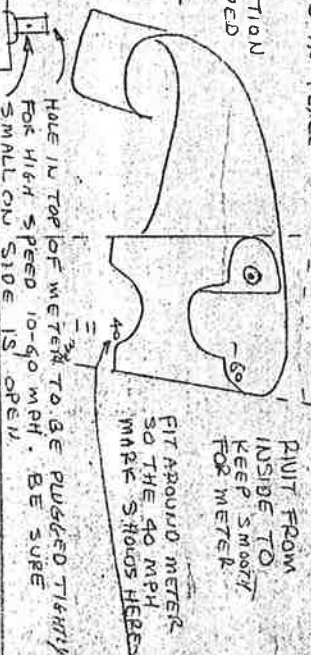


8 WIND METER MOUNT

THE POPULAR "DUYER" HAND-HELD WIND METER IS A GOOD INDICATOR OF AIRSPEED AND SHOULD BE MOUNTED ON THE RIGHT DIAGONAL STRUT FOR GOOD VISIBILITY WHILE FLYING. THE METER CAN BE MOUNTED WITH A SIMPLE BRACKET WHICH MAY BE TAPED OR CLAMPED IN PLACE.



MOUNT SHOULD BE BENT BACK UNTIL METER IS PARALLEL WITH FRONT STRUT THATS THE WAY THE WIND BLOWS WHEN YOU'RE FLYING.



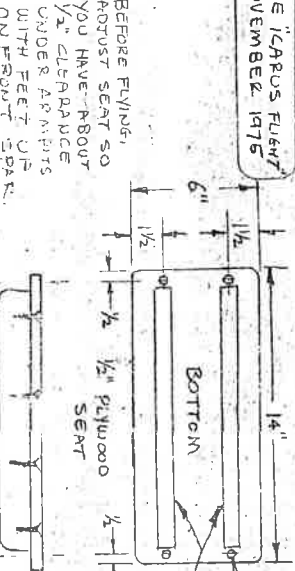
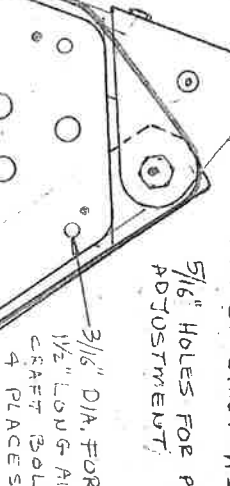
9 SEAT MOUNTING

THE PARALLEL BAR SUPPORT IS UNIQUE IN THAT IT IS NOT NECESSARY TO HAVE A SEAT TO BE ABLE TO FLY, HOWEVER, IT IS IMPORTANT THAT A SEAT BE USED FOR HIGH ALTITUDE & DURATION FLYING TO TRAINING PILOT FATIGUE AND INCREASE SAFETY.

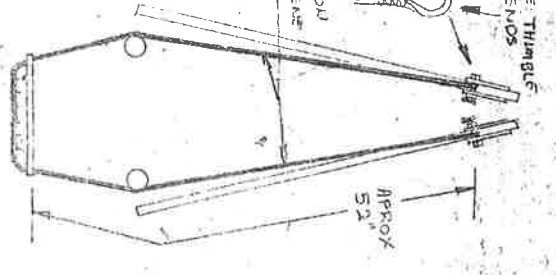
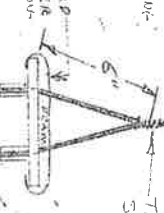
SEE "CARUS FLIGHT" NOVEMBER 1975

FULL SCALE TEMPLATE FOR 1/8" THICK ALUMINUM PLATES, ONE ON EACH SIDE OF STRUT ASSEMBLY.

5/16" HOLES FOR PITCH ADJUSTMENT.



TRY SEAT OUT CAREFULLY. DO NOT USE SEAT BELT. PUT ON ONLY AFTER YOUR FLIGHT IS UNDERWAY. PUT SEAT ON BY REACHING OUTSIDE WING TUBES AND STRAPPING SEAT AND STRAPPING SEAT UNDERMOUNT.



NOTE! A NEW IMPROVED SEAT "THE EASY SEAT" IS AVAILABLE THROUGH UFM AND UFM DEALERS.

UFM EASY RISER

SHEET 9 FAIRINGS

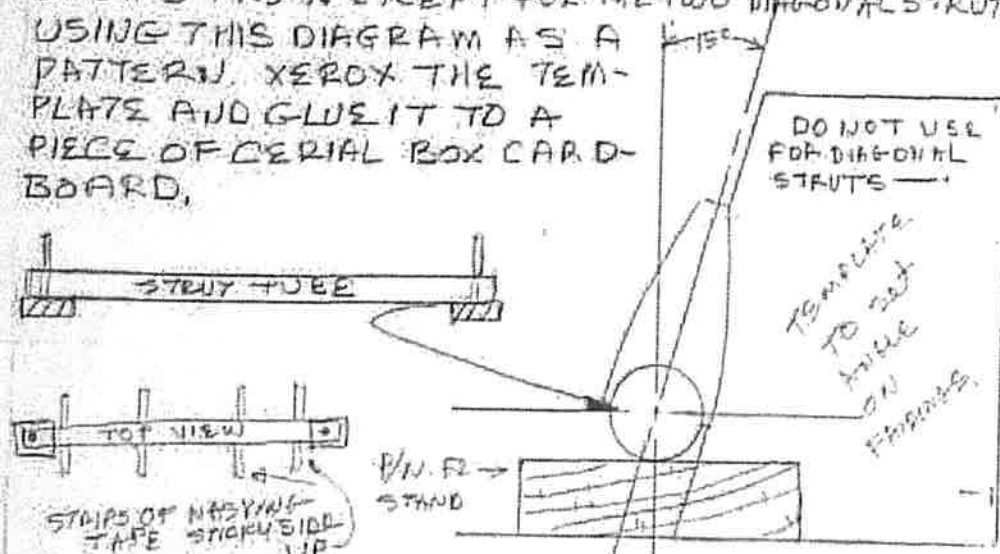
① PARTS NEEDED ARE:

P/N'S 25, 26, 27, 28, 29, 30, 51 & 52.
TOOLS & SUPPLIES

BENCH OR TABLE, MIXING PAIL, 80 GRIT SAND-
PAPER, STIR STICKS, WAXED PAPER, MASKING TAPE,

② TEN STRUTS REQUIRE FAIRINGS

THE ONLY STRUTS WITHOUT FAIRINGS ARE
THE TWO INBOARD REAR STRUTS AND THE IN-
BOARD DIAGONAL STRUTS. THE FAIRINGS ARE APP-
PLIED TO THE STRUTS AT A 15° ANGLE TO THE
CENTERLINE OF THE STRUT BOLT HOLES IN
EACH STRUT. EXCEPT FOR THE TWO DIAGONAL STRUTS,
USING THIS DIAGRAM AS A
PATTERN. XEROX THE TEM-
PLATE AND GLUE IT TO A
PIECE OF CEREAL BOX CARD-
BOARD.



③ CLEAN STRUTS WITH M.E.K. OR SCOTCH BRITE AND DETERGENT AND RINSE WELL WITH WATER

④ GLUE FOAM FAIRINGS TO STRUTS

GLUE ON TRAILING EDGE WITH FIXTURE IN
STEP 2. PLACE SEVERAL STRIPS OF MASKING-
TAPE ACROSS UNDERNEATH THE STRUT THESE
WILL BE USED TO HOLD THE FOAM TIGHT TO THE
STRUT TUBE UNTIL EPOXY SETS. MIX A SMALL
AMOUNT OF 5 MINUTE EPOXY AND APPLY IT SPARINGLY
ALONG THE CENTER OF WHERE THE FAIRING WILL
GO. FIT ONE FAIRING AT A TIME ON TO THE TUBE
AND PULL DOWN TIGHT WITH THE TAPE. TRIM &
FIT THE SECOND FAIRING UP AGAINST THE FIRST ONE
WITH A TINY BIT OF EPOXY IN-BETWEEN.

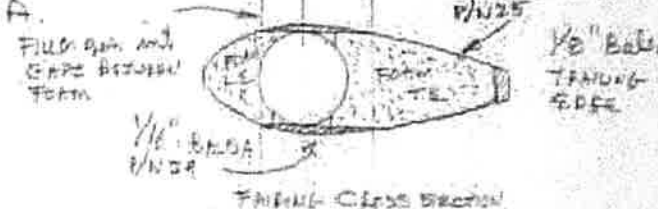
IMPORTANT NOTE: IF ANY EPOXY GETS ON THE OUT-
SIDE OF THE FOAM OR Balsa IT CANNOT BE SAND-
ED OFF; IT WILL CAUSE A GIANT LUMP. DO NOT LET
ANY EPOXY TO GET ON OUTSIDE SURFACES

⑤ GLUE ON LEADING EDGES THEY CAN BE GLUED ON BY EYE CHECKING THAT THE GAPS ON THE SIDES BETWEEN THE FOAM PARTS IS EQUAL.

IMPORTANT NOTE: TAKE CARE TO CHECK THE
LOCATION AND ANGLE THAT FAIRINGS MUST HAVE
TO TRAIL STRAIGHT BACK SAME AS THE RIBS.
THERE IS A LEFT-HAND SET & A RIGHT-HAND SET.

⑥ FILL SIDE GAPS BETWEEN FOAM

WITH LIGHT WEIGHT SPACKLING-COMPOUND P/N 30 COMES
WITH A PLASTIC SQUEEGIE. THE COMPOUND IS KIND
OF DRY IN THE CONTAINER AND PROBABLY WON'T
SPREAD WELL UNTIL A BIT OF WATER IS MIXED IN.
THE GOAL IS TO GET THE AREA ON THE SIDES
FLAT ENOUGH TO GLUE ON 1/4" WIDE STRIPS OF
1/8" THICK Balsa.



⑦ SAND SIDES FLAT FOR Balsa STRIPS

YOU'LL NEED A FLAT SANDING BLOCK WITH ABOUT
80 GRIT SAND PAPER GLUED TO IT. A 1/4" STRIP
OF PREMIUM WOOD ABOUT 2" WIDE WORKS OK.
SAND THE FILLER AND A LITTLE BIT OF FOAM BUT DO
NOT GO TOO FAR AND SAND INTO THE TUBING. IF
YOU DO THE TUBING WILL STICK UP IN THE MIDDLE
SO THAT THE Balsa WON'T TOUCH ON THE EDGES - A
MESS. ITS HARD ENOUGH TO GET THE Balsa BANGED
ON, NICE AND FLAT ANY HOW.

⑧ BOND THE Balsa ON THE SIDES

COVER YOUR WORK TABLE WITH WAXED-PAPER
TAPE IT DOWN. NOW CUT 1/4" WIDE STRIPS OF
1/8" Balsa FROM THE 4x48" STOCK P/N 29.
LOCATE THE STRIP IN THE BEST PLACE, ITS FRONT
EDGE ABOUT 1/8" BEHIND THE FRONT OF THE TUBING.
MORE OR LESS! NOW YOU'LL NEED SOME THINGS TO
HOLD THE Balsa DOWN WHILE EPOXY SETS. TO AVOID
THE Balsa FROM SHIFTING USE A COUPLE OF STRAIGHT
PINS TO LOCATE ONE EDGE OF Balsa.

I HAVE USED 5 OR ONE GALLON
ZIP LOCK BAGS WITH 20 LB POUNDS
OF RICE IN EACH ONE TO HOLD THE STRIPS DOWN WHILE
THE 5 MINUTE EPOXY SETS - I WONDER IF A HEAVY
RUBBER DOOR MAT MIGHT WORK BETTER?
BUT SO MANY THINGS TO TRY - SO LITTLE TIME!
MIX A BIT OF 5 MIN EPOXY THEN QUICKLY SPREAD
IT ON ONE SIDE OF Balsa AND SQUEEGE IT OUT
TO COMPLETELY COVER SURFACE OF THE Balsa.

REMEMBER NO Oozing OUT AT THE EDGES OR
EPOXY DRIPS ANY WHERE

⑨ SAND TRAILING-EDGE SQUARE AND BOND

CUT STRIPS OF 1/8" Balsa A LITTLE WIDER THAN
TRAILING-EDGE. SQUEEGIE ON A HEAT LAYER
OF 5 MINUTE EPOXY ON THE ENTIRE SURFACE
OF THE Balsa AND USE STRAIGHT PINS AND
MASKING TAPE TO HOLD IN PLACE.

⑩ SANDING FINAL CONTOUR OF FAIRING

THE BASIC CONTOUR IS ALREADY IN THE FOAM.
TO KEEP FROM RUINING THIS SHAPE IT IS IMPORTANT
TO SAND AWAY THE Balsa SCRAP FIRST. THIS IS
BEST DONE WITH THE SANDING BLOCK YOU MADE.
CAREFULLY - CAREFULLY SAND THE EDGES OF
THE Balsa WITHOUT TOUCHING THE FOAM AT
ALL. IF YOU CAN DO THIS TRICK YOU ARE 90%
DONE. THE SANDING CONTOUR BLOCK P/N 51 IS
FIRST USED TO JUST CHECK THE CONTOUR AND
FINALLY FOR FINISH SANDING THE FINAL CONTOUR
USE VERY SPARINGLY ON THE LEADING-EDGE.
FINAL-FINAL SANDING SHOULD BE DONE BY EYE
WITH SANDING BLOCK WHILE SIGHTING DOWN THE
LENGTH OF THE STRUT.

⑪ LAMINATING ON THE GLASS CLOTH

WAX PAPER COVERED TABLE. SQUEEGIE, 10" ALUMINUM
PAINTSHIELD USED AS SQUEEGIE, MIXING PAIL SMALL.
CUT FIBERGLASS CLOTH P/N 27 INTO 8 1/2" STRIP. TRIM TO
1" LONGER THAN FAIRING. WE USE WEST EPOXY 105 RESIN
WITH 205 HARDNER. TO MEASURE EPOXY 5 PARTS TO ONE
HARDNER USE ONE GALLON SQUARE TUBE CAN LID. USE
1" WIDE BRUSH. MIX 5 LIDS RESIN & ONE LID HARDNER
BRUSH HALF OF IT ON ONE SIDE STRUT EVENLY. LAY
GLASS ON STRUT WITH 1/2" HANGING OUT BEHIND. USE
SQUEEGIE WHICH YOU CAN CURVE TO GO ALONG LENGTH OF
STRUT 1/2" FROM CENTER TOWARDS ENDS AND
WET FABRIC ENTIRELY WITH RESIN - THERE IS NO
EXTRA RESIN SO MAKE IT ALL THE FABRIC WITH WHAT
YOU HAVE. TURN OVER STRUT AND BRUSH ON ALL
REMAINING RESIN. SQUEEGIE UNTIL ALL
FABRIC HAS BEEN WETTED. NOW USING ALUMINUM
CURVED PAINTSHIELD AS ANOTHER SQUEEGIE. SMOOTH
THE EPOXY FROM LEADING TO TRAILING TO PULL THE
FABRIC UP TIGHTLY AROUND THE FRONT AND SMOOTH IT
OUT ALONG THE ENTIRE SURFACE. CLAMP AROUND STRUT
TO THE TABLE AND SLIDE STRUT OVER IT FOR CURING.

⑫ FINAL TRIM & SEAL

LET CURE OVERNIGHT. TRIM
OFF EDGES WITH VERY SHARP XACTO OR STAINLY KNIFE
SAND FINAL CONTOUR IN ENDS. THEN SEAL ENDS AND
TRAILING-EDGE WITH A HEAVY COAT OF WEST EPOXY.

PREPARED 4/28/06 BY LARRY MAURO: MAURO ENGINEERING CO.
FOR MODEL 4000 EASY RIBBER HANG-GUARD LAKELAND, FLORIDA