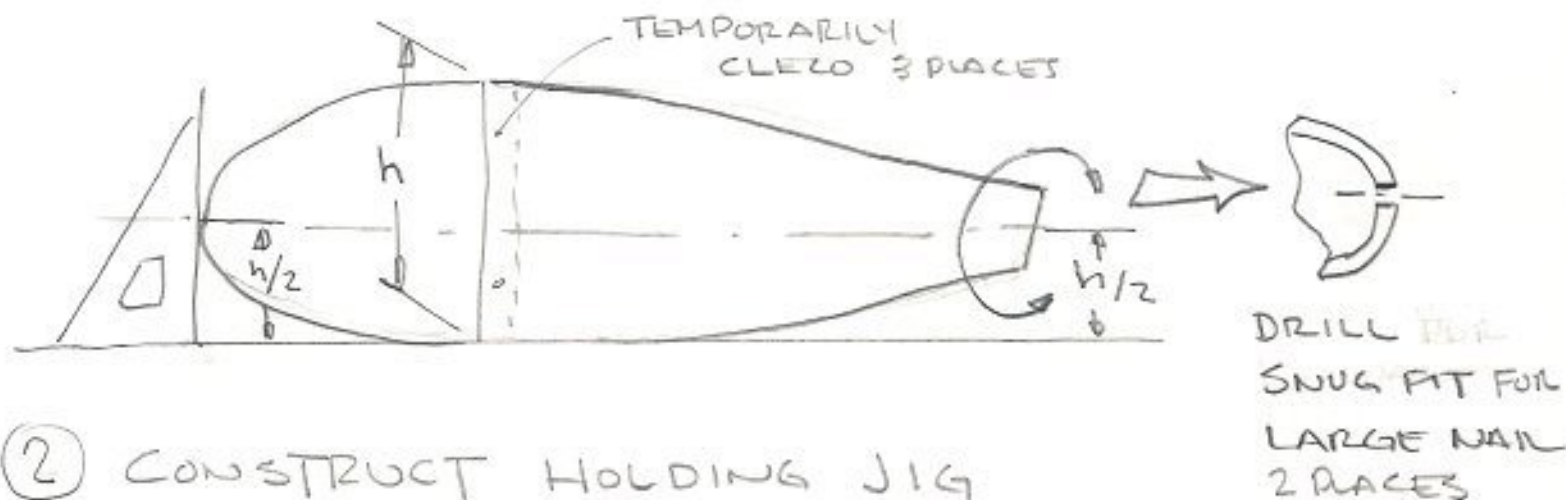


WHEEL PANT INSTALLATION

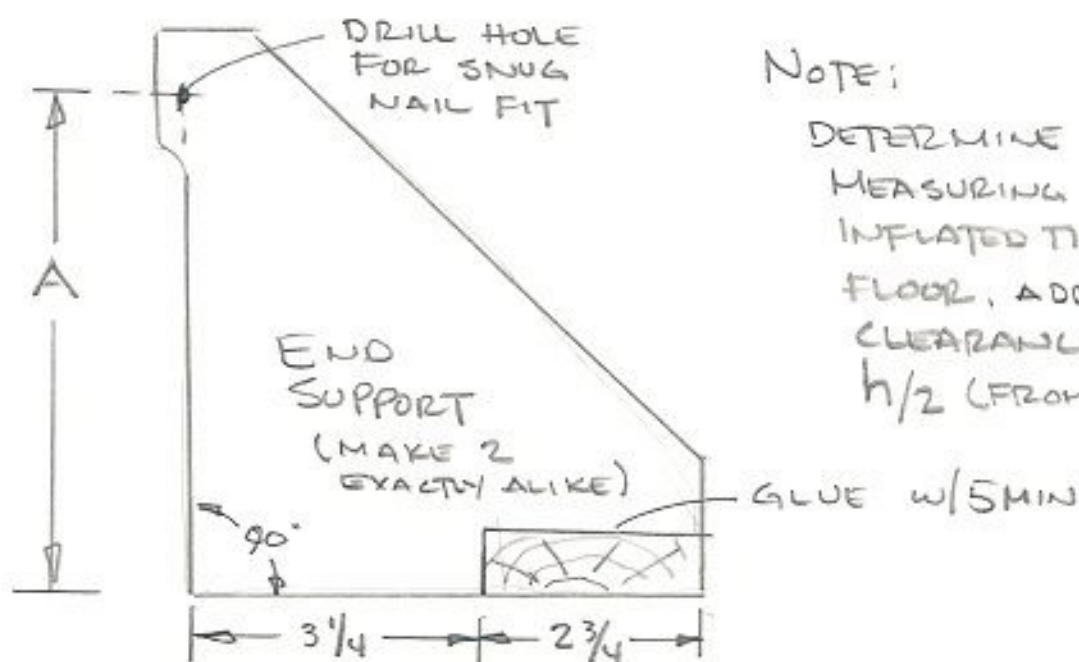
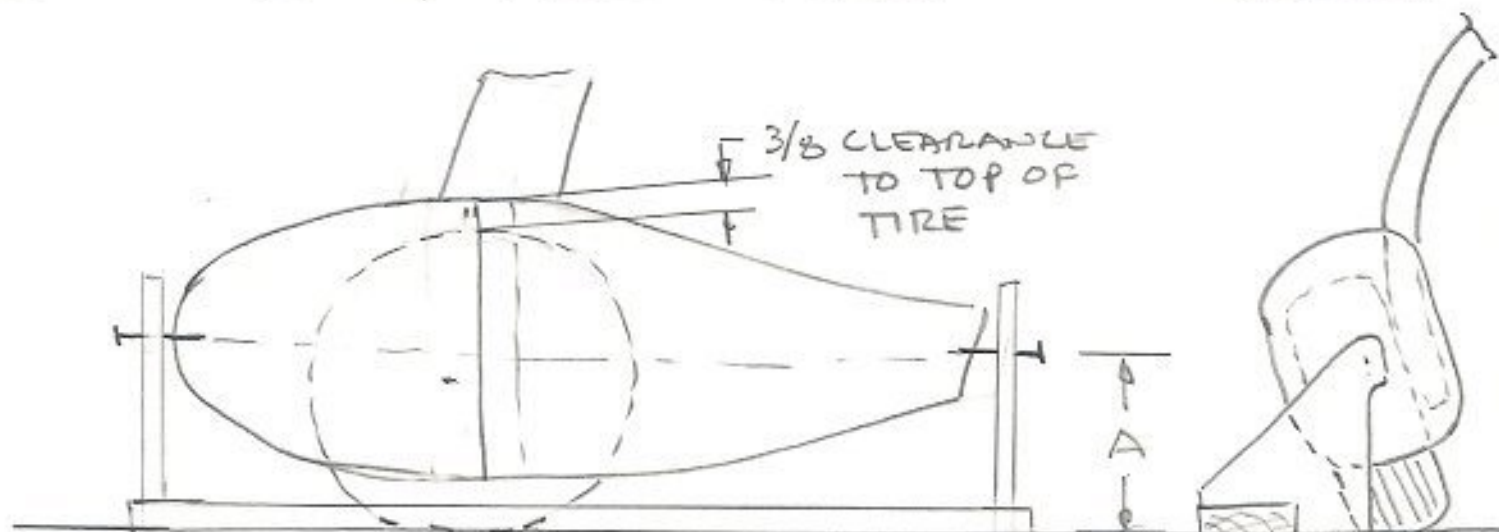
(BE PREPARED FOR A 25-30 HOUR JOB)

MANY IDEAS PRESENTED WERE DEVELOPED BY SAM KRIEDEL

① FIND CENTERS



② CONSTRUCT HOLDING JIG



NOTE:

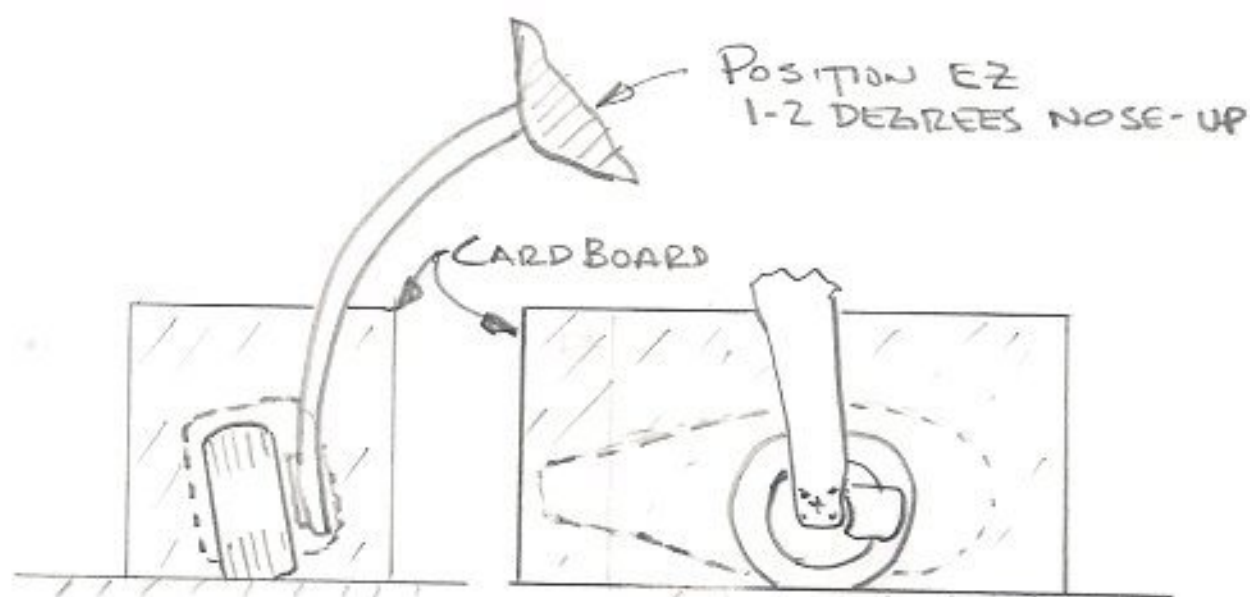
DETERMINE "A" DIMENSION BY MEASURING TOP OF FULLY INFLATED TIRE ABOVE THE FLOOR, ADDING 3/8" TIRE CLEARANCE AND SUBTRACTING h/2 (FROM STEP 1).

③ CUTOUT WHEEL & STRUT OPENING

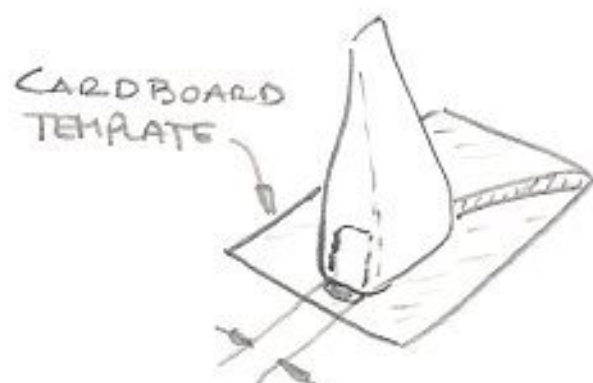
WHEEL PANT POSITIONING GUIDELINES

1. WHEEL PANT SIDE SHOULD BE PARALLEL TO SIDE OF TIRE
2. AXLE CENTER LINE POSITIONED $1\frac{1}{2}$ " IN FRONT OF VERTICAL WHEEL PANT SPLIT LINE.
3. CLEARANCE FROM INSIDE OF WHEEL PANT TO TOP OF TIRE - $\frac{3}{8}$ "
4. THE HORIZONTAL CENTERLINE OF WHEEL PANT (LOOKING FROM SIDE) IS $1-2^\circ$ NOSE DOWN RELATIVE TO FUSELAGE LONGITUDINAL.
5. CENTER LINE OF WHEEL PANT WHEN LOOKING FROM THE TOP IS PARALLEL WITH THE AIRCRAFT CENTER LINE (GEAR SHOULD BE EITHER SET OR ALL LOAD TAKEN OFF GEAR)

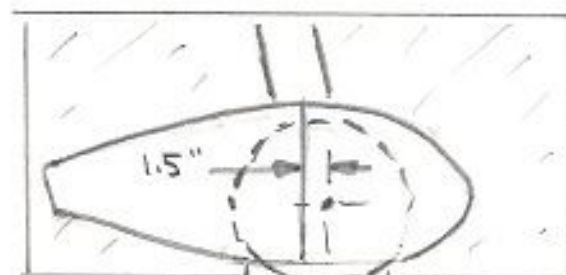
③ CONT.



TRACE AROUND TIRE & STRUT IN
BOTH PLANES - EYEBALL AS BEST
AS YOU CAN



TIRE WIDTH
PLUS $\frac{1}{4}$ " CLEARANCE
BOTH SIDES

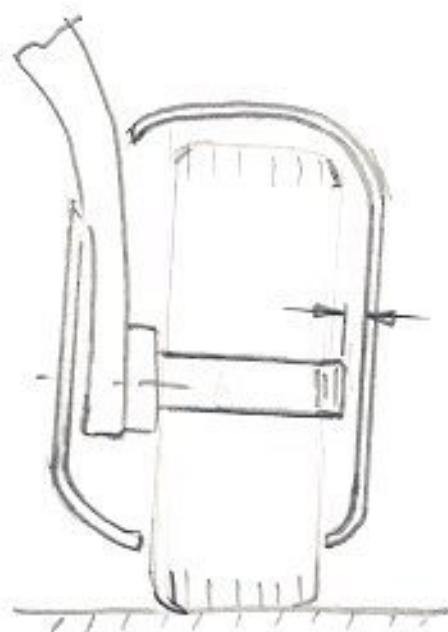


$\frac{1}{4}$ " - $\frac{3}{8}$ "
TIRE CLEAR
IN FRONT

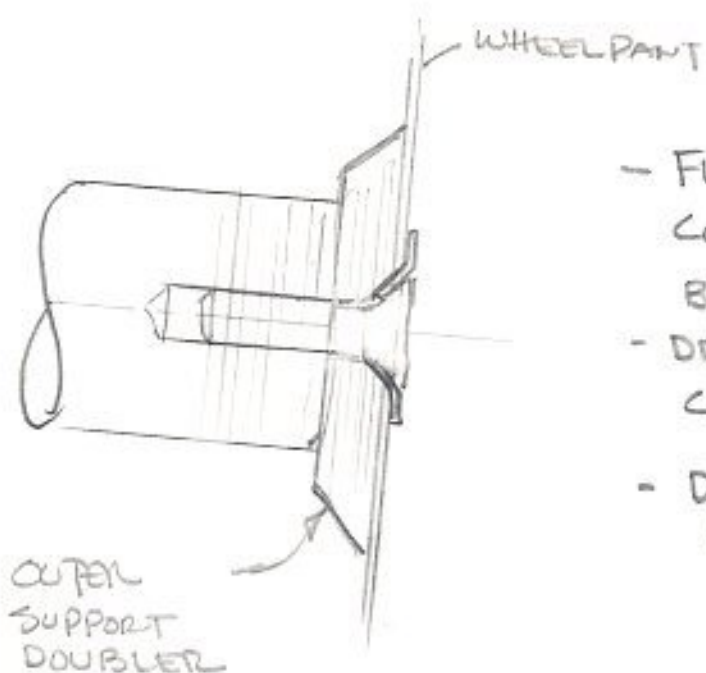
$\frac{1}{2}$ " - $\frac{5}{8}$ "
TIRE CLEAR
IN REAR

PLACE WHEELPANT ON
CARD BOARD TEMPLATE AND
MARK TIRE & STRUT CUTOUT.

④ WHEEL PANT ATTACHMENT

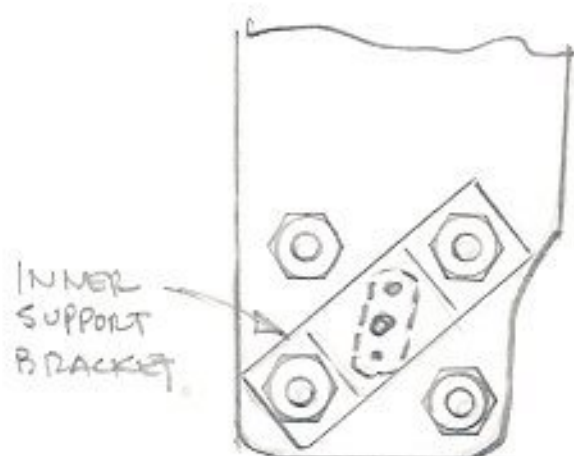


POSITION WHEEL PANT .25" FROM END OF AXLE
BE SURE THERE IS ADEQUATE CLEARANCE ON SIDE OF TIRE - ADJUST .25" DIMENSION AS NEEDED.



- FLOX IN 1/4" PLYWOOD PAD & COVER WITH 1 LAYER OF BID
- DRILL & TAP AXLE FOR 1/4-28 COUNTER SUNK SCREW
- DON'T DRILL HOLE FOR SCREW IN WHEEL PANT AT THIS TIME

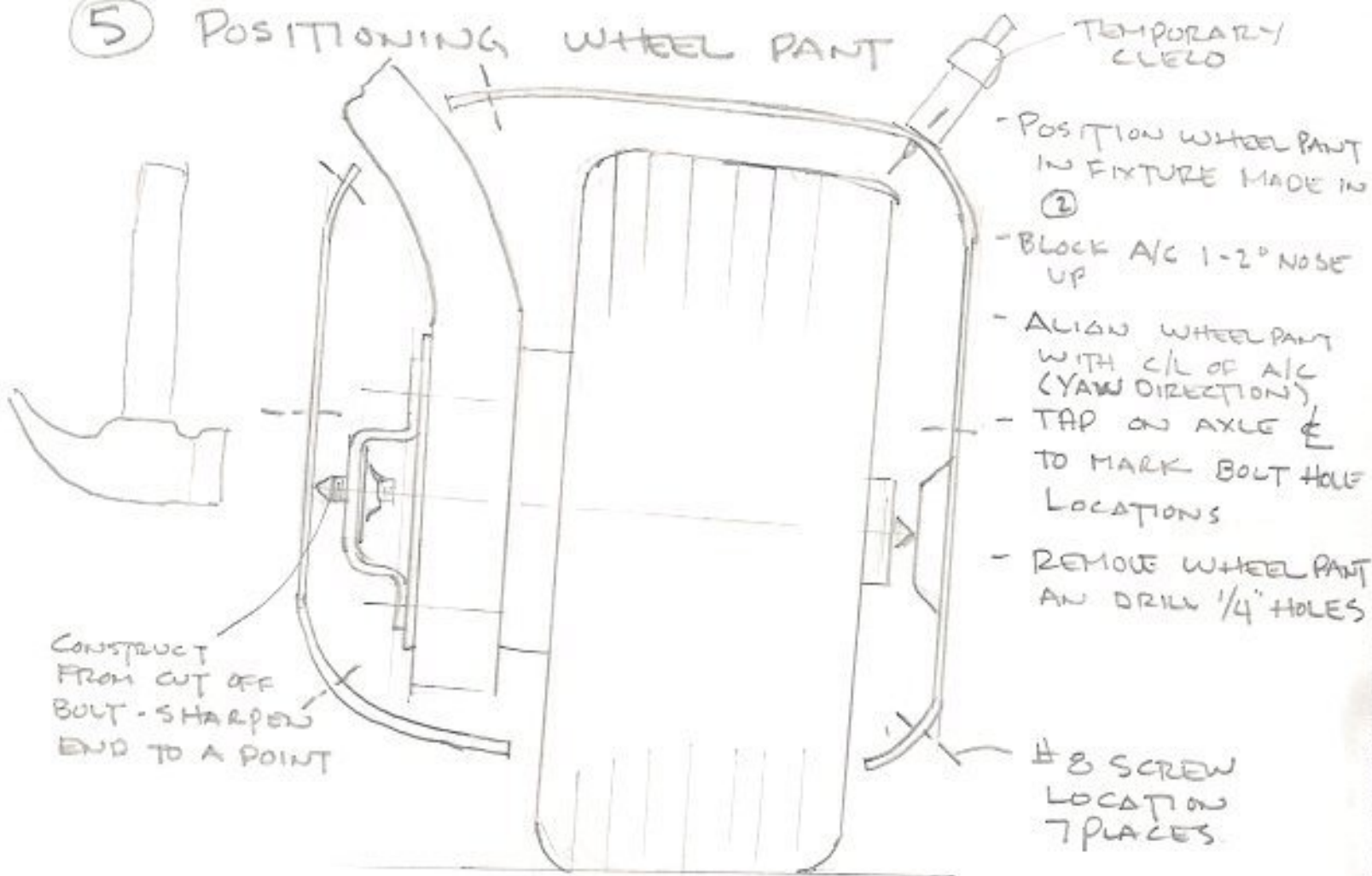
④ CONT.



NUT PLATE 1/4-28

BEND UP .06" STEEL HAT SECTION, RIVET NUT PLATE AND FASTEN BRACKET USING 2 DIAGONAL AXLE BOLTS.

⑤ POSITIONING WHEEL PANT



⑥ INNER SUPPORT DOUBLER

INSTALL WHEEL PANT FRONT HALF
USING OUTER AXLE SCREW ONLY

MEASURE BETWEEN INNER SUPPORT BRACKET
AND INSIDE OF WHEEL PANT. FASHION A
PLYWOOD SHIM OF THE CORRECT THICKNESS,
FLOX INTO PLACE WITH 1 PLY OF BID.

AFTER SET UP, LIGHTLY SAND THE FIBERGLASS
WHERE IT MEETS WITH THE SUPPORT BRACKET
AND AXLE, APPLY GREASE TO THESE METAL
SURFACES AND FLOX TO THE FIBERGLASS.

REASSEMBLE THE WHEEL PANTS CAREFULLY AND
INSTALL THE 2 SCREWS, ALSO GREASED. VERY
LIGHTLY TIGHTEN THE SCREWS JUST ENOUGH
TO SQUEEZE OUT THE EXCESS FLOX BUT NOT
ENOUGH TO DISTORT THE WHEEL PANT SHAPE
LET THE FLOX CURE - THIS WILL ENSURE A GOOD
SQUARE CONTACT SURFACE.

⑦ GEAR LEG FAIRING

