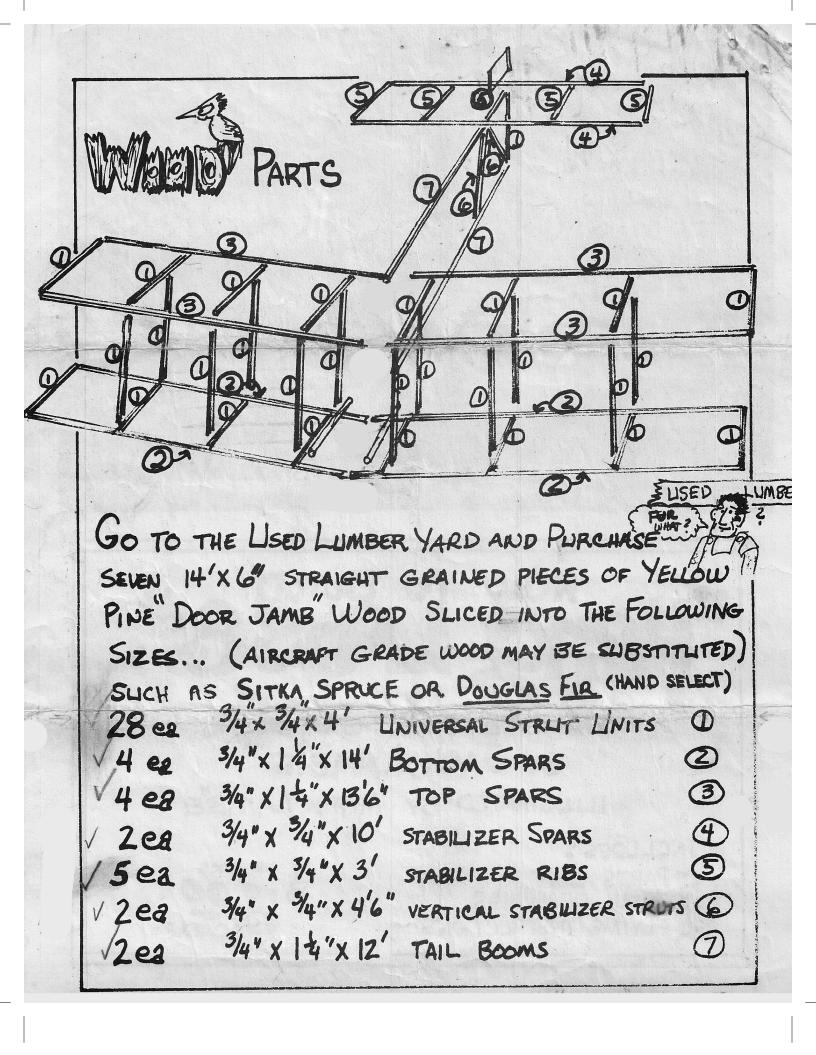


HOW TO BUILD OF THE POSSION OF THE P

A "CHANLITE TYPE" GLIDER BY JACK LAMBIE *ILLUSTRATED BY MARK LAMBIE

INCLUDES: 会 PARTS LIST 会 DETAIL DRAWINGS 会 FLYING INSTRUCTIONS

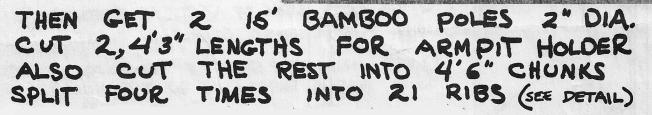
S 3 00 CHEAP





ILL THE STUFF

YOU NEED.



96 4" TRIANGULAR CARDBOARD GUSSETS _ POLE HOLDERS (CLOTHES CLOSET TYPE)

25 YARDS 10' WIDE PLASTIC SHEET

2"X 1"X1" ALUMINUM ANGLES

WOOD SCREWS 66 24 2" x 32 EYEBOLTS COME

PACKAGE COLORED CONSTRUCTION PAPER

300' BAILING WIRE

BALL HEAVY STRING RIBSTITCHINGS

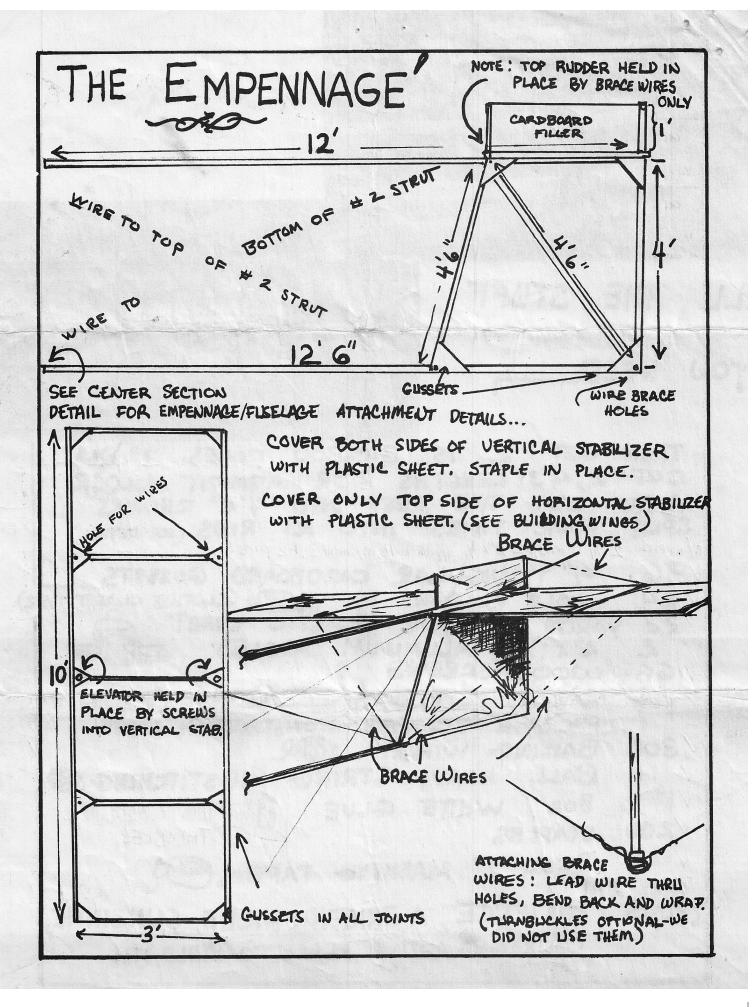
WHITE GLUE

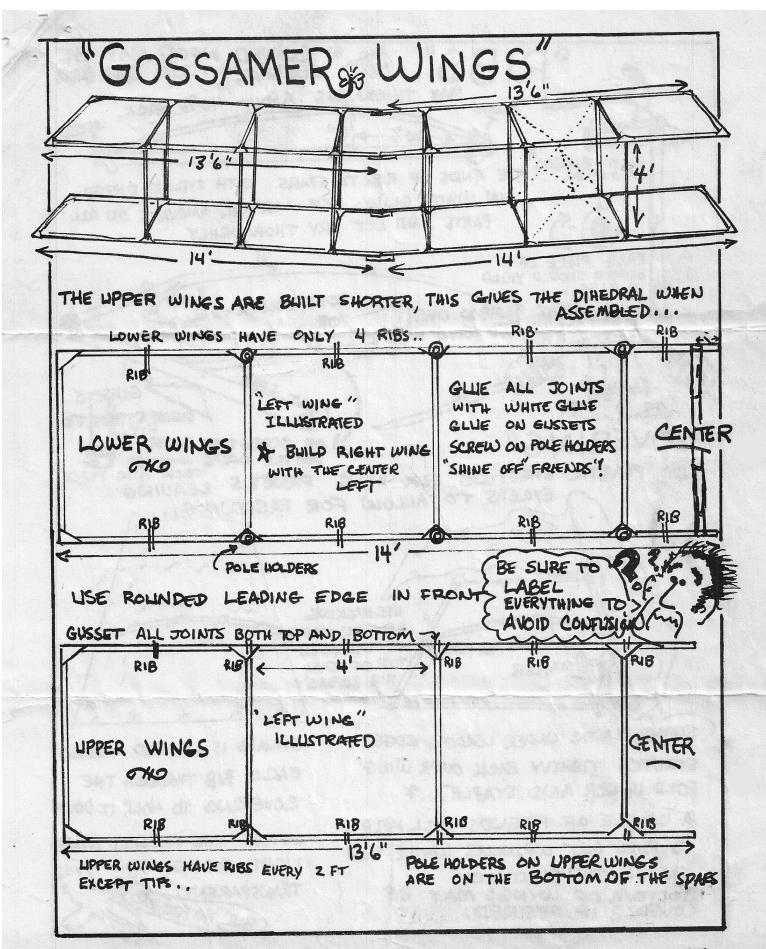
200 STAPLES

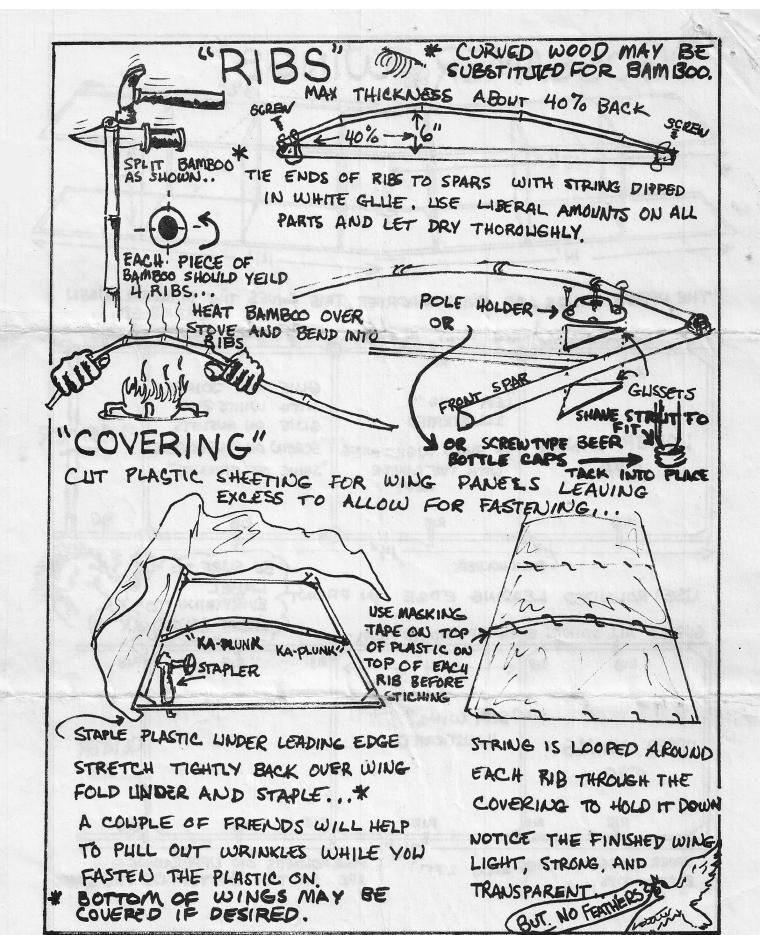
ROLL I" MASKING TAPE

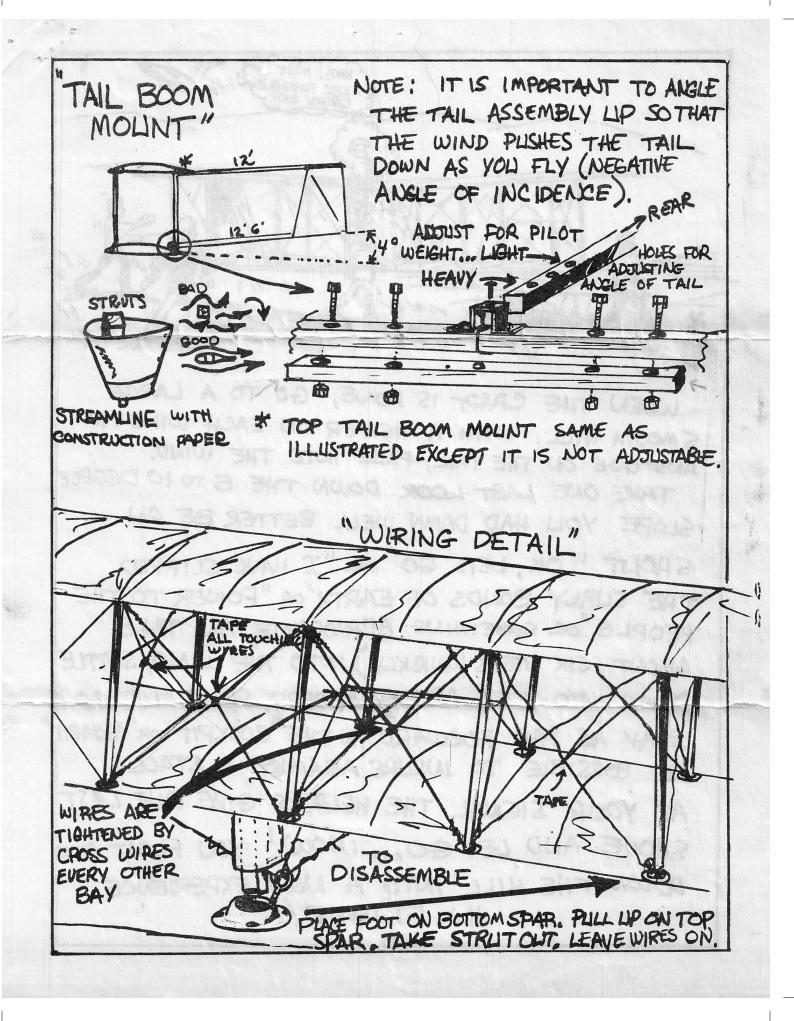


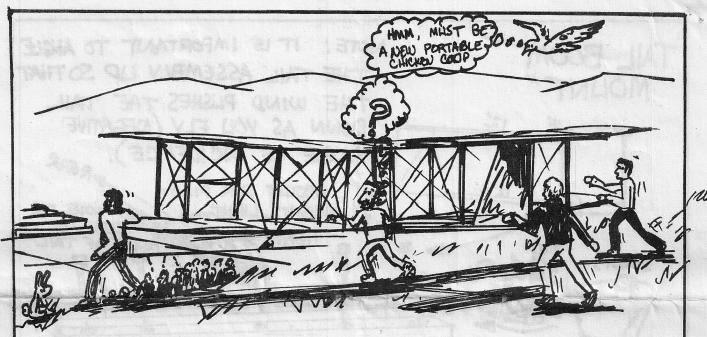
&PLUS PATIENCE, A FRIEND, HILLS, SUNSHINE, COURAGE AND A PLACE TO BUILD IT ...



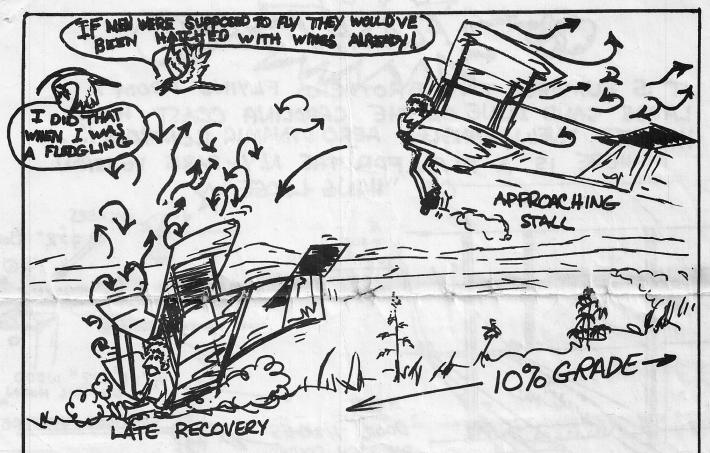








WHEN THE CRAPT IS DONE, GO TO A LARGE SMOOTH HILL. WITH A HELPER ON EACH WINGTIP AND ONE ON THE TAIL, FACE INTO THE WIND. TAKE ONE LAST LOOK DOWN THE 5 TO 10 DEGREE SLOPE YOU HAD DAMN WELL BETTER BE ON ... SHOLIT " OK, LETS GO" OR "I HAVE SLIPPED THE SURLY BONDS OF EARTH OR "POWER TO THE PEOPLE "OR SOMETHING APPROPRIATE, ALL TAKE ABOUT SIX STEPS (QUICKLY) INTO THE WIND, SETTLE DOWN INTO THE ARMPIT HOLDERS, SHOWT"LET GO" STAY AS FAR FORWARD IN THE "COCKPIT" OR "ARMPIT, AS POSSIBLE TO INSURE AGAINST A STALL. AT YOUR SIGNAL THE HELPERS GIVE ONE LAST SHOVE AND LET GO ... WOW! YOU FLOAT OFF DOWN THE HILL INTO A NEW EXPERIENCE IN FLIGHT!



IF THE MACHINE SEEMS TO STOP IN THE AIR AFTER CLIMBING A BIT, YOU ARE STALLING.... MOVE YOUR LEGS FOWARD TO ANGLE DOWN AND PICK UP SPEED.

IN THE NORMAL 10 TO 12 MPH WIND, GROUND SPEED IS ABOUT 5 MPH OR SO. FULL STALL LANDINGS AREN'T NECESSARY, BUT, IF YOU WANT, MOVE THE LEGS BACK JUST BEFORE TOUCHDOWN AND THE GLIDER WILL FLARE UP AND STOP DEAD.

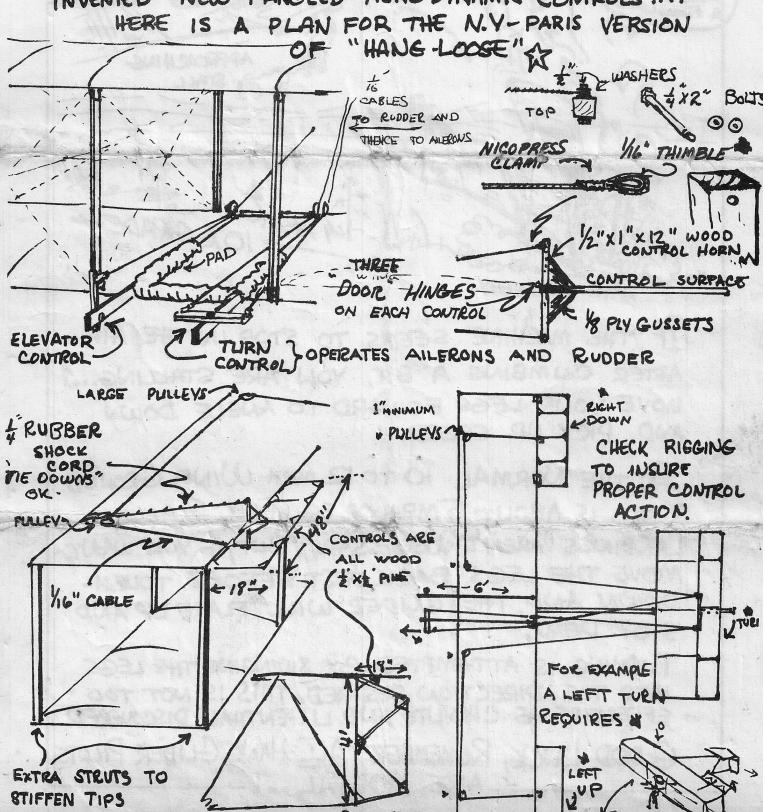
TURNING IS ATTEMPTED BY SWINGING THE LEGS
INTO THE DIRECTION DESIRED. THIS IS NOT TOO
EFFECTIVE AS CHANLITE AND LILIENTHAL DISCOVERED.

GOOD LUCK, REMEMBER, ALL HANG GLIDER PILOTS

ARE MORTAL ...



IT IS RUMORED TWO BROTHERS FLYING FROM A LARGE SAND DUNE ON THE CAROLINA COAST HAVE INVENTED "NEW FANGLED AERO DYNAMIC CONTROLS



OTHER THINGS I'VE LEARNED & POINTS OF INTEREST

HELPERS: Have the wing holders let go at the same instant. Many ground loops have resulted from one tip man letting go or pushing the wing differently from the other. Practice so the wing men have exactly the same degree of enthusiasm. The tail man is most critical. About 90% of the stalls on takeoff are due to the tail holder shoving down too hard or continuing to run and shove as the plane rises, thus causing a stall.

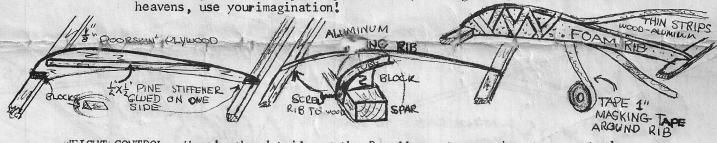
SPEED AND STALLING: Movie analysis of flights shows the importance of gerting up good speed before and after takeoff. If the flyer is too eager and gets WAR THE nto the air before enough speed the ship will slow and drop a wing. It does not seem possible to bring up a stalled wing by weight shifting or RUN RUNT controls.

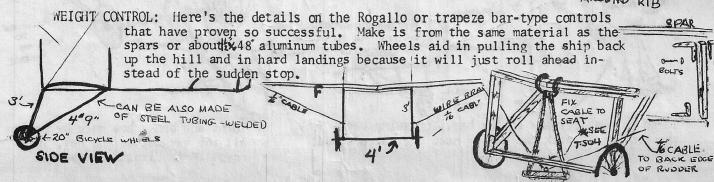
TOWING: It appears that many outstanding flights have been made from level ground by towing with two runners holding lines attached near the wing tips. Well done it looks pretty spectacular and safe but I still say, "DON'T FLY HIGHER THAN YOU'RE WILLING TO FALL."

CONSTRUCTION NOTES: Use strong wire. Heavy bailing wire is fine. Piano wire or 1/16" cable is good, Be sure everything is square before flight. It seems like an obvious thing but some ships I've seen are so twisty from weak wire and out of line rigging that good flights are impossible.

COVERING: The center section should be covered as leaks in this area greatly reduce lift and increase drag. Extra strength can be gained by using Dacron and airplane dope. Glue on the Dacron and shrink tight by passing a medium hot iron over it. 4 to 6 mil polyethelyne sheeting makes a very inexpensive covering. Doing the bottom of the wing seems to increase the glide distance. Real Mylar, if you can find it, is very strong, and expensive, too. POUBLER

RIBS: If bamboo is hard to find you can use those thin ones found in awnings and wall mats, but put one every foot instead of one every two feet. Aluminum tubing bent into a curve and screwed to the spars works well as does sheet plywood ribs cut from 1/8" sheet. Foam sheets cut into ribs and strengthed with cap strips make very strong and light ones. Good





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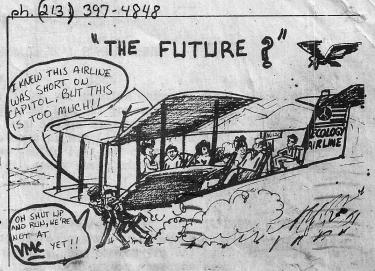
Includes:

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Pre-cut covering.

4 mil plastic.

Spars finished and
Marked. Ribs, Metal
fittings, Galvanized
1/16" cable, tape,
string and gussetts
Screws, Plastic-cap
Strut Fittings.





moves CG in direction desired.

