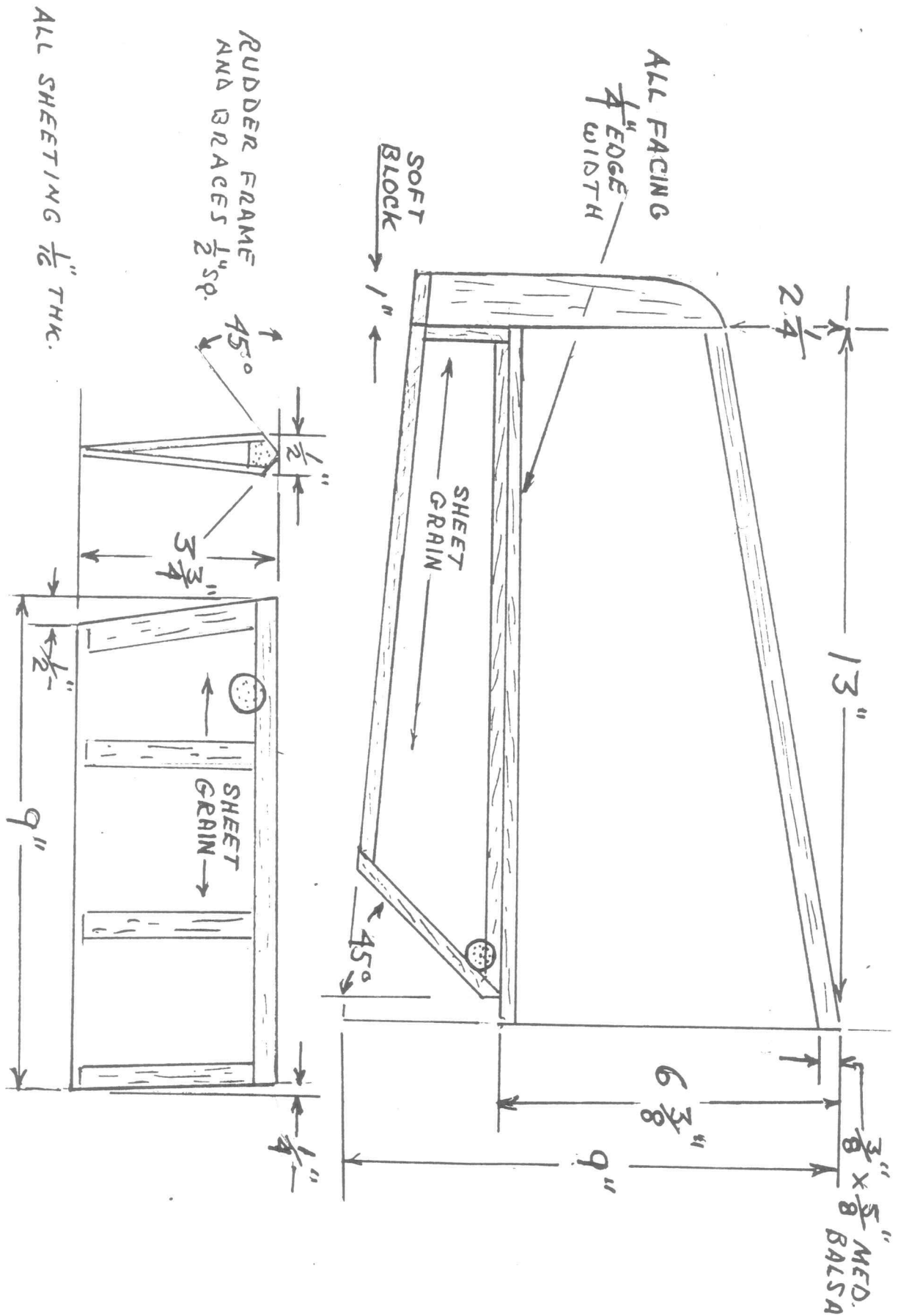


TIPO 750

WING - 750" 8 NOV 82

REN



TIPD 750

VERTICAL + HORIZ STAB

8 NOV 82

FINAL ASSEMBLY INSTRUCTIONS

1

YOU WILL REQUIRE THE FOLLOWING ITEMS TO COMPLETE THE MODEL.

5 MINUTE EPOXY - BEYOND SUGGESTED

MICROBALLONS - ANY KIND

2 HOUR EPOXY - TAPCO 4-1 OR EQUIV

FIBERGLASS TAP - 3" WIDE

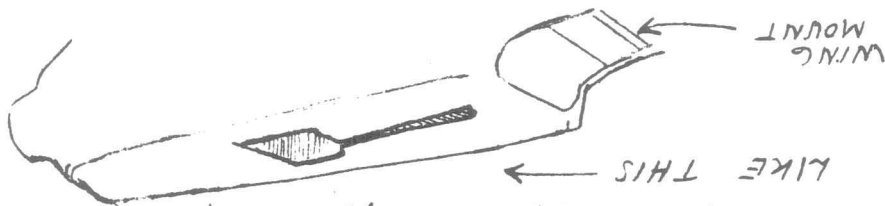
DRYWALL TAPE 6" WIDE (SOMETIMES CALLED "GROUT STOP") IT'S A FLAT MESHED FIBERGLASS CLOTH AVAILABLE AT MOST KITCHENS & BATH STORES.

STEP I START WITH FUSELAGE

REMOVE THE FORWARD WING MOUNT FROM THE FUSELAGE. YOU CAN REACH INSIDE THE FRONT AREA TO DRILL + MOUNT THE NOSE GEAR. USE A LONG PIECE OF 3/8" PIANO WIRE SHARPENED TO A POINT AS A DRILL. LIKE THIS

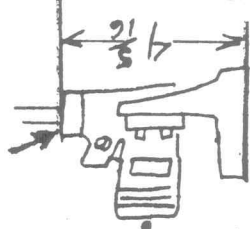


WHEN GEAR IS MOUNTED, MAKE CUTOUT IN FUSELAGE FOR GEAR LEG. DONT CUT WHEEL OPENING YET.

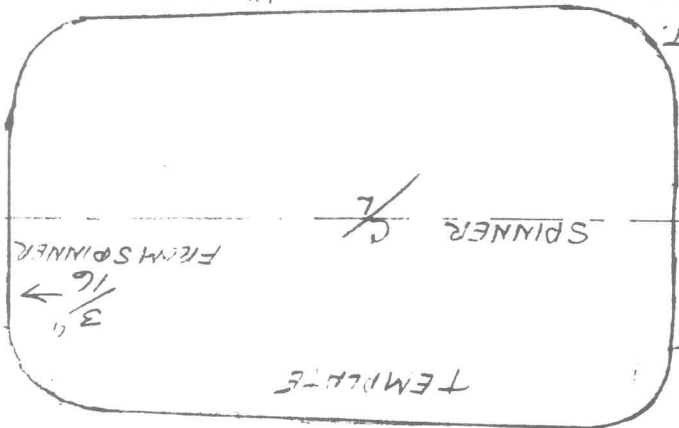


3. MOUNT ENGINE LIKE THIS:

CUT OUT FUSELAGE USING TEMPLATE AS GUIDE.



MOUNT ENGINE SQUARE WITH MOUNT. USING DIMENSION SHOWN FOR MOST SPINNERS. ADD APPROX 1/8" FOR GOLDBERG SPINNER. THE FIREWALL IS 4 1/2" FROM THE NOSE.



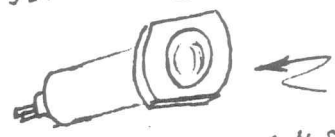
ASSEMBLE ENGINE + MOUNT IN PLACE AND ADD A 1/16" SPACER BETWEEN SPINNER + THRUST WASHER. LOCATE EVERYTHING WITH HOT-

STUFF OR ZAP ON WHATEVER YOU LIKE. LIGHTLY EPOXY MOUNT TO FIREWALL THEN REMOVE SPINNER + ENGINE AND DRILL FIREWALL WITH PIANO WIRE DRILL.

DRILL TWO  $\frac{1}{8}$ " DIA HOLES IN FIREWALL, CENTERED IN THE MOTOR MOUNT. SPACE THEM FOR FUEL TANK FITTINGS. WE RECOMMEND YOU USE A 16-20 OZ SHAMPOO BOTTLE WITH THE NECK CUT OFF AND A CULLIVAN

FITTING INSTALLED. MAKE A BULK HEAD TO SUPPORT THE REAR OF THE TANK USING  $\frac{1}{4}$ " THK SOFT Balsa.

← SLIP FITTINGS THRU FIRE WALL LIKE THIS THIS LOCATES TANK SOBBLY.



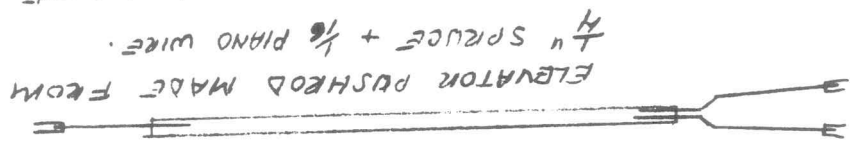
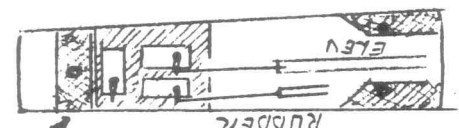
DRILL HOLE FOR THROTTLE LINKAGE USING PIANO WIRE DRILL. THEN INSTALL APPROX 12" OF  $\frac{3}{8}$ " DIA NYLON TUBING AS A LINKAGE GUIDE. LOCATE THE OTHER END OF THE NYLON TUBE IN THE TANK BULKHEAD.

INSTALL THE PLYWOOD WING MOUNT NOW USING EPOXY + CHOPPED

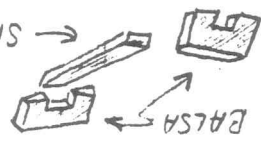
FIBERGLASS TAPE.

LOCATE SERVOS + TRAY AS FAR ~~FORWARD~~ AS POSSIBLE.

← LIKE THIS WING MOUNT PLATE

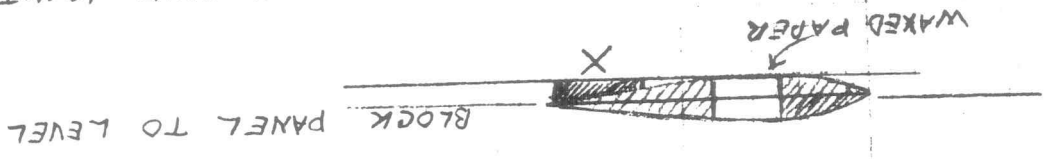


MAKE A HOLD DOWN FOR THE RECEIVER AND LOCATE BEHIND THE SERVOS. ← Balsa ← Epoxy plates to ← SPRUCE ← FUSELAGE SIDES



WING ASSEMBLY

Block wing on a flat surface and trial fit dihedral. Dihedral is 3" measured at tip block glueing under one tip.



SPREAD A THIN COAT OF 5 MINUTE EPOXY ON BOTH PANEL JOINTS DO NOT EPOXY SHEETING AROUND SERVO CUTOFF. IT CAN BE ALIGNED AND JOINED AFTERWARD.

WINGS - CONTINUED

DOUBLE, TRIPLE CHECK PANEL ALIGNMENT AND DIRECTION. DO NOT REDUCE DIRECTION BY EVEN  $\frac{1}{4}$ "

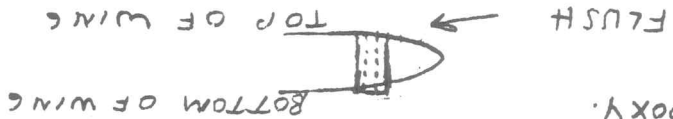
NOW FIT WING TO FUSELAGE. IT SHOULD BE QUITE CLOSE EXCEPT AT L.E. WHERE A LITTLE SANDING ON TOP MAY BE REQUIRED. DRILL A  $\frac{1}{2}$ " HOLE TO INSTALL FORWARD HOLDOWN BOLT.

USE A PIECE OF SHARPENED  $\frac{1}{2}$ " BRASS TUBE AND TWIST CAREFULLY



INSTALL THE DRILLED DOWEL IN THE WING USING 5 MINUTE EPOXY

EPOXY.



NOW ADD 3" GLASS CLOTH TO CENTER JOINT OF WING.

SQUEEGEE 24 HOUR EPOXY INTO THE TAPE THOROUGHLY,

WHILE WARMING EPOXY WITH A HAIR DRYER GUN. THIS ELIMINATES

SANDING A LUMPY SEAM LINE.

NEXT ADD THE GLASS CLOTH (DRYWALL TAPE) USING EPOXY

RESIN AND SQUEEGEE IN PLACE. OVERLAP APPROX 2" ON G/L.

DONT LET IT RUN INTO THE ALLECON LINKAGE.

CENTER + FIT WING TO FUSELAGE. MAKE CERTAIN ALLECON LINKAGE

DOES NOT HIT REAR WING MOUNT BRACE. TRIM BRACE IF NECESSARY.

LOCATE WING AT FORWARD BOLT FIRST. DRILL + TAP  $\frac{1}{2}$ " X 20 INTO

PLYWOOD PLATE. IF YOU SCREW UP, DRILL PLATE AND INSTALL A "NUT."

BE PATIENT!

WHEN YOUR SURE THE WING IS CENTERED,

DRILL + TAP REAR HOLD DOWNS AND RE-CHECK ALIGNMENTS. THEN

BOLT SOLIDLY.

STABILIZER

JOIN STAB HALVES USING 5 MINUTE EPOXY ON EACH HALF.



FIT STAB TO FUSELAGE OPENING. ENLARGE CUTOUT AS REQUIRED

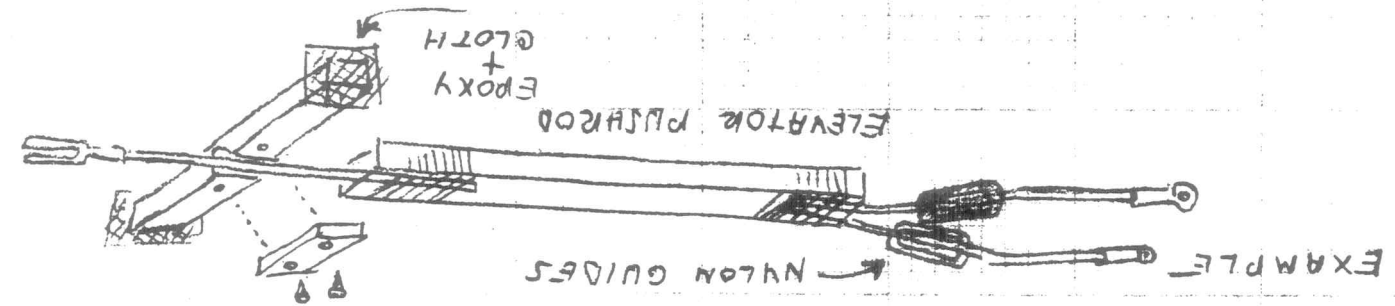
USING 100 GRIT SANDPAPER AND A SHARP EXACT-O KNIFE. THE FIT

MUST BE ABSOLUTELY LOOSE OR YOU WILL DISTORT THE FIN.

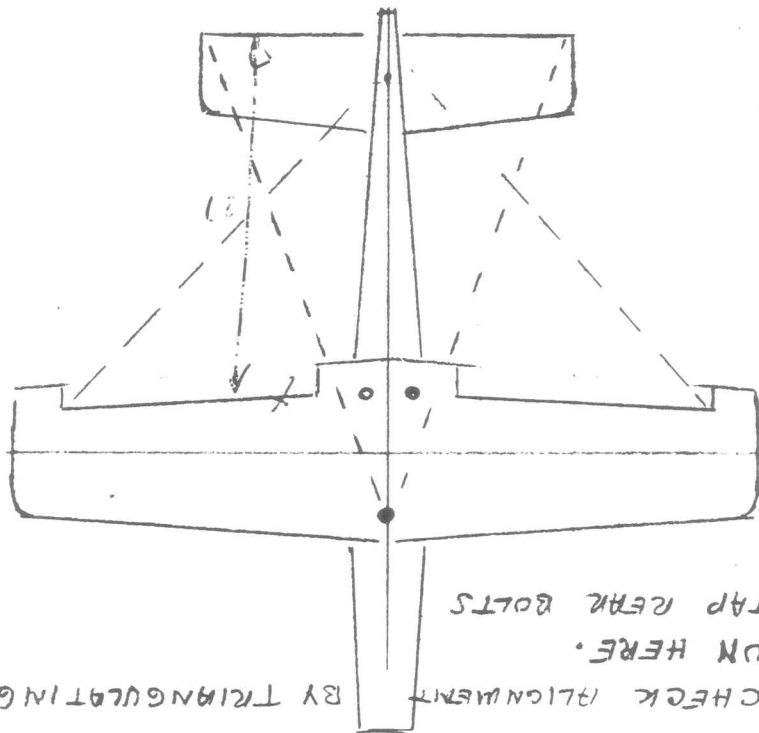
LOCATE STAB WITH TINY SPOTS OF HOT STUFF AND SLIVERS OF

BALSA. WHEN ALIGNMENT IS PERFECT WITH WING - NOT FIN

EPOXY IN PLACE AS DESCRIBED ON " FUSELAGE COMPLETION " SHEET.

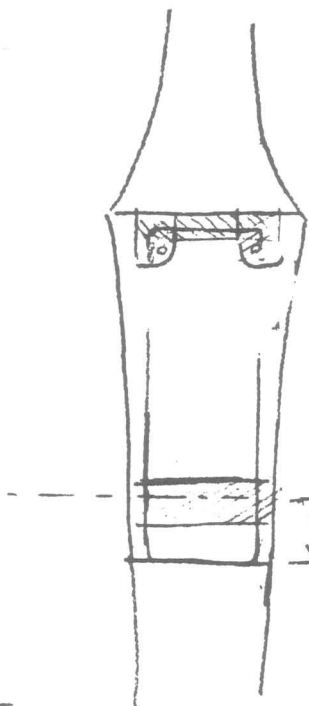


- EXAMPLE
- WITH WING IN PLACE, LOCATE AND MOUNT STAB ON DATUM LINE. MAKE A TINY EPOXY FILLET INSIDE FUSELAGE AROUND STAB. USE SLOW DRYING EPOXY AND CHOPPED FIBREGLASS GLOTH.
  - INSTALL TAILPOST USING 5 MINUTE EPOXY.
  - MAKE A MINIMUM SIZE FILLET AROUND STAB ON OUTSIDE OF FUSELAGE USING 5 MINUTE EPOXY, MICRO BALLBOAS AND A WET FINGER FOR CONTOURING.
  - PUSHRODS SHOULD BE SUPPORTED AT STAB END AND SHOULD EXIT AT REAR THROUGH LARGER NYLON GUIDES.



- CENTER WING EXACTLY AND DRILL + TAP FORWARD BOLT.
- DOUBLE CHECK ALIGNMENT BY TRIANGULATING AS SHOWN HERE.
- DRILL + TAP REAR BOLTS

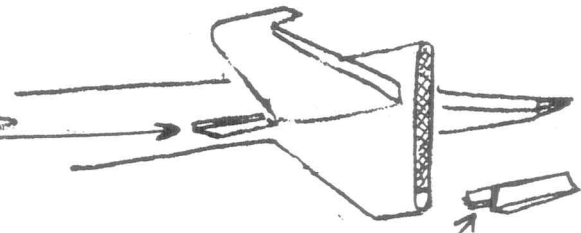
ALIGNMENT



MOUNT PLYWOOD PLATES AS SHOWN FIT CAREFULLY USING MINIMUM QTY'S OF EPOXY AND CHOPPED FIBREGLASS GLOTH.

FUSELAGE COMPLETION

ADD RUDDER FAIRING LIKE THIS:  
USE RUDDER TAPED IN PLACE AND ALIGNED WITH FIN AS A GUIDE.  
STAR BRACE - EPOXY TO FUSelage SIDES + STAR L.E.



NOW ADD WING FAIRING PIECES AND SAND TO FIT FUSelage REMOVE WING + FILL CENTER WITH A VERY COARSE MIX OF RESIN AND MICROBALLONS. (PUT CLAY IN BOLT HOLE). OR - CARVE A SOFT BLOCK TO FIT.



DRILL THRU THE RESIN WHEN DRY AND FINISH SAND TO CONTOUR. RE-INSTALL WING USE A LONG STEEL BOLT FOR FORWARD HOLD DOWN AND NYLON BOLTS AT REAR. CAREFULLY REMOVE REAR BOLTS AND INSTALL PLYWOOD PLATE \* USING 5 MINUTE EPOXY ON CENTER OF PLATE AND HOT STUFF EDGES. WHEN DRY, DRILL THRU THE PLATE. CUT OUT WHEEL WELL SHEETING, INSIDE THE LINES FIRST, THEN FIT YOUR GEAR.

WITH PLANE ASSEMBLED AND WHEELS ON THE GEAR, INSTALL NOSE WHEEL ON STRUT. ALLOW PLANE TO SIT APPROX 1-2° NOSE HIGH. NOT NOSE LOW. THAT DOES NOT WORK AT ALL. NOW CUT THE WHEEL OPENING FOR THE NOSE WHEEL. WE HAVE INCLUDED SOME ADDITIONAL INFO WHICH YOU MAY BE INTERESTED IN.

THE C.G. IS CORRECT WHEN THE PLANE JUST BALANCES ON THE MAIN GEAR WITH AN EMPTY TANK. REFER TO 'FERRIS WHEEL MODEL BUILDER FOR FURTHER INFO. \* \* \* ON YES, I GOT THE RIGIDON DIFFERENTIAL INFO BACKWARDS IN THE ARTICLE. IT'S MORE 'UP' THAN 'DOWN'

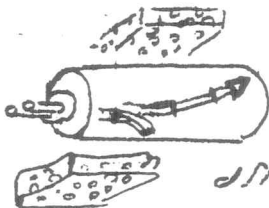
\* B25 ONLY

\* ORIGINAL TYPE ARTICLE - TRIMMING INFO STILL APPLIES.

ODDS + ENDS

16 03  
SHAMPOO  
BOTTLE

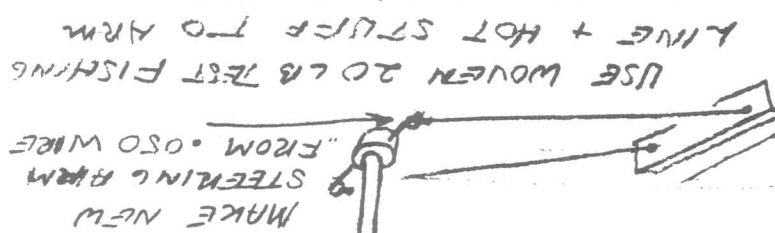
TANK SET UP



USE TWO TUBES AND LOCATE INTO FIREWALL WITH FUEL TUBING.  
TO CARBURATOR TO PRESSURE FITTING ON PIPE HEADERS.  
SPONGE OVER + UNDER TANK.

STERLING: DRILL  $\frac{1}{8}$  HOLES ON EITHER SIDE OF SERVO ARM HUB

DRILL CLOSE TO HUB

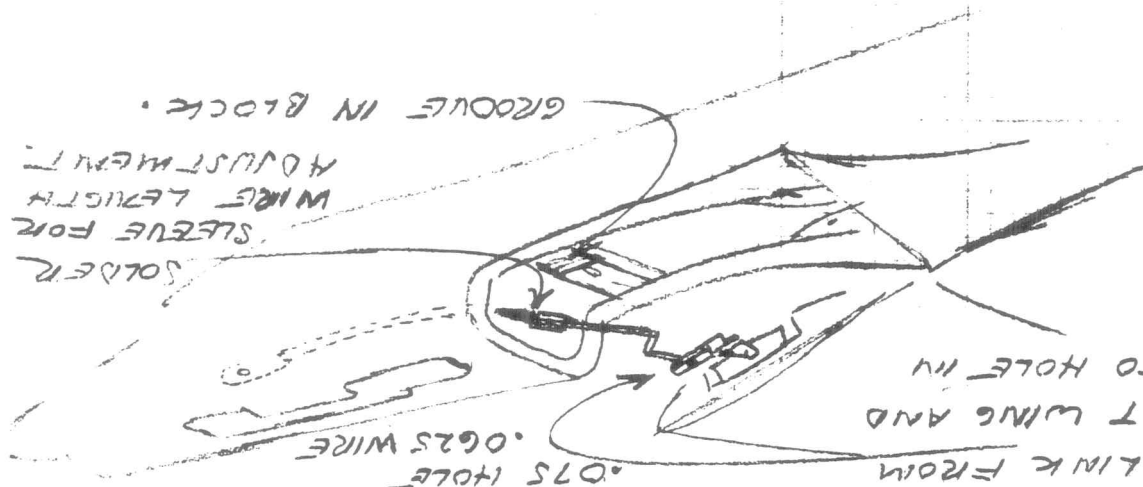


USE WOVEN 20 LB TEST FISHING LINE + HOT STUFF TO ARM

ON ONE SIDE. THEY FEED THROUGH GUIDE, AND BOTH HOLES IN SERVO ARM, THROUGH GUIDE AGAIN AND ATTACH TO OTHER SIDE OF NEW STEERING ARM. WITH GEAR LOCKED "DOWN", PULL LINE TIGHT + HOT STUFF THE KNOT. CENTER WHEEL AND PUT A DROP OF HOT STUFF ON THE LINE AT THE SERVO ARM.

RETRACT SET UP

PUT Z BEND IN LINK FROM NOSE GEAR. TILT WING AND SLIP WIRE INTO HOLE IN RETRACT ARM.



.075 HOLE  
.0625 WIRE  
SOLDER  
SLEEVE FOR  
WIRE LEIGHT  
ADJUSTMENT  
GROOVE IN BLOCK.