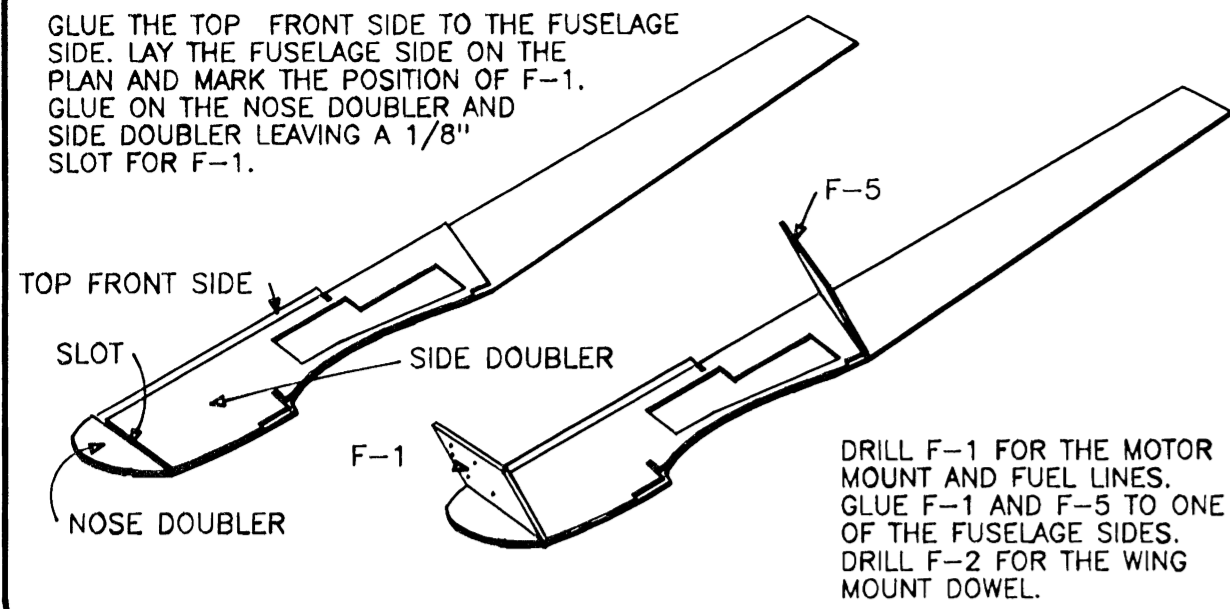


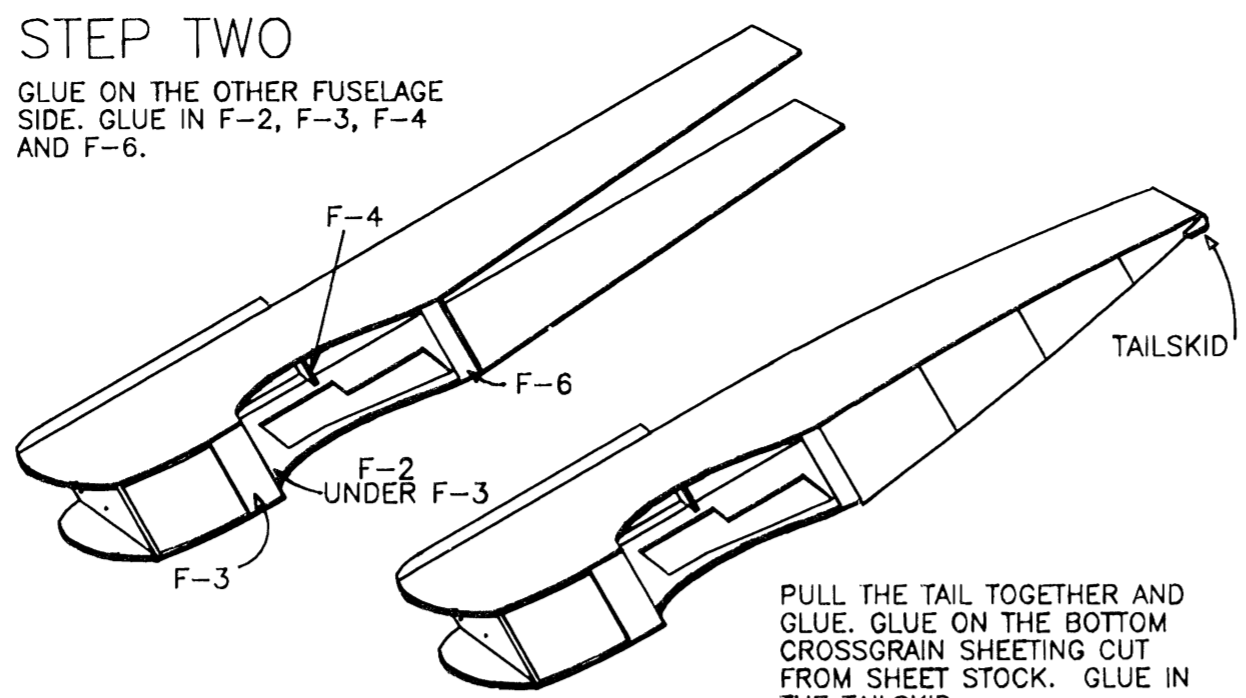
STEP ONE

GLUE THE TOP FRONT SIDE TO THE FUSELAGE SIDE. LAY THE FUSELAGE SIDE ON THE PLAN AND MARK THE POSITION OF F-1. GLUE ON THE NOSE DOUBLER AND SIDE DOUBLER LEAVING A 1/8" SLOT FOR F-1.



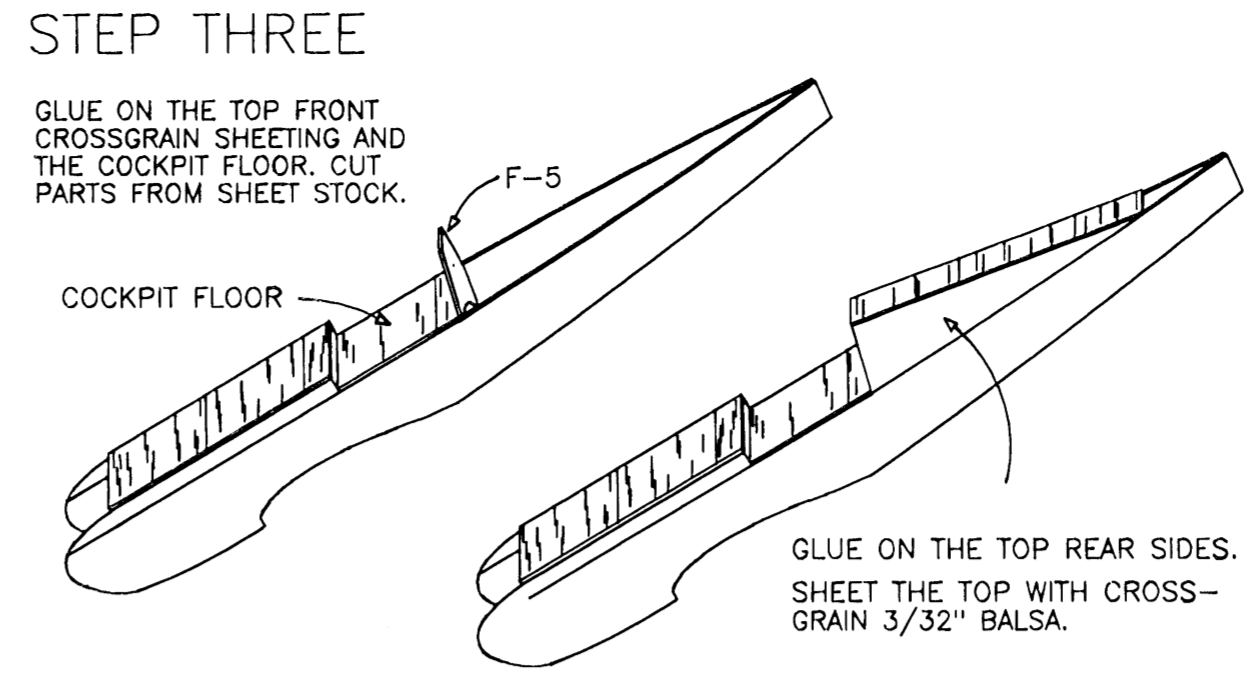
STEP TWO

GLUE ON THE OTHER FUSELAGE SIDE. GLUE IN F-2, F-3, F-4 AND F-6.



STEP THREE

GLUE ON THE TOP FRONT CROSSGRAIN SHEETING AND THE COCKPIT FLOOR. CUT PARTS FROM SHEET STOCK.



INSTRUCTIONS

TOOLS AND ADHESIVES: TOOLS NEEDED TO BUILD THIS MODEL ARE: X-ACTO KNIFE, PLIERS, SCREWDRIVERS, DRILL WITH 1/16", 1/8" AND 5/32" DRILL BITS AND BOTH MEDIUM AND FINE SANDPAPER. FOR GLUE WE RECOMMEND MEDIUM CYA GLUE FOR ALL WOOD TO WOOD JOINTS. FOR WOOD TO FOAM USE WHITE GLUE OR EPOXY. USE EPOXY ONLY TO JOIN THE TWO WING HALVES.

STEP ONE: BUILD THE MODEL USING THE PICTURE SEQUENCE AS A GUIDE. GLUE THE TOP FRONT SIDES TO THE FUSELAGE SIDES. LAY THE FUSELAGE SIDES ON THE PLAN AND NOTE THE TWO MARKS VISIBLE ON THE PLANS ABOVE AND BELOW F-1. USE THESE MARKS TO POSITION THE DOUBLERS. THE NOSE DOUBLER IS GLUED ON AHEAD OF THE FORWARD MARKS, THE SIDE DOUBLER IS GLUED ON BEHIND THE REAR MARKS. THIS LEAVES A 1/8" SLOT FOR F-1 BETWEEN THE DOUBLERS. DRILL F-1 FOR THE MOTOR MOUNT AND GLUE IN THE BLIND NUTS. DRILL F-1 FOR THE FUEL LINES AND DRILL F-2 FOR THE 1/8" WING MOUNT DOWEL. GLUE F-1 AND F-5 TO ONE OF THE SIDES.

STEP TWO: GLUE ON THE OTHER FUSELAGE SIDE. GLUE IN F-2, F-3, F-4 AND F-6. PULL THE FUSELAGE SIDES TOGETHER AT THE TAIL AND GLUE, KEEPING THE FUSELAGE STRAIGHT. GLUE ON THE BOTTOM REAR 3/32" CROSSGRAIN SHEETING CUT FROM THE SHEET STOCK.

STEP THREE: GLUE ON THE TOP FRONT CROSSGRAIN SHEETING AND THE COCKPIT FLOOR. BEVEL SAND THE TOP AND BOTTOM EDGES OF THE REAR TOP SIDES FOR A BETTER FIT. GLUE ON THE TOP CROSSGRAIN SHEETING.

STEP FOUR: GLUE THE 1/8" X 1/4" Balsa STRIPS TO THE TRAILING EDGE OF THE WING PANELS. MAKE THE AILERON LINKAGE USING THE PLAN AS A GUIDE. FIT THE AILERONS AND CUT OFF THE 1-1/2" INBOARD SECTION. CAREFULLY NOTCH THE INBOARD SECTION FOR THE AILERON LINKAGE. GLUE THE AILERON LINKAGE TO THE INBOARD SECTION AND GLUE THE ASSEMBLY TO THE WING. LEAVE A 3/32" GAP BETWEEN THE AILERONS AND THE INBOARD SECTION. EPOXY THE WING PANELS TOGETHER, BLOCKING UP ONE WING TIP 2". LIGHTLY SAND OFF THE FLASHING ALONG THE LEADING EDGE OF THE WING AND SAND OFF THE LITTLE BUMPS ON THE SURFACE OF THE WING WITH FINE SANDPAPER. BEFORE COVERING, APPLY A STRIP OF 3/4" WIDE FIBERGLASS STRAPPING TAPE FROM TIP TO TIP, TOP AND BOTTOM OF THE WING ALONG THE THICKEST SECTION OF THE WING.

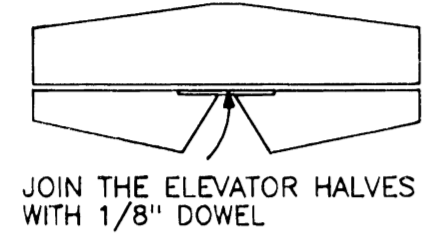
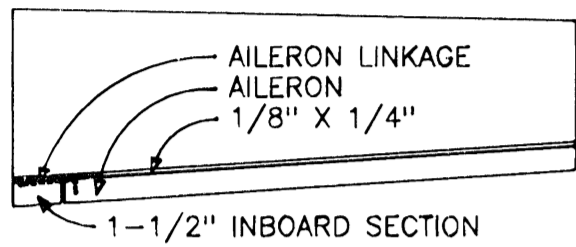
STEP FIVE: USING THE HOLE IN F-2 AS A GUIDE, DRILL A 1/8" HOLE INTO THE FOAM WING FOR THE WING MOUNT DOWEL AND EPOXY THE DOWEL INTO THE WING. INSTALL THE REAR MOUNTING SCREWS. REMOVE THE SCREWS AND APPLY A DROP OF GLUE INTO THE HOLES TO HARDEN THE WOOD. GLUE ON THE PLYWOOD BOTTOM FRONT. DRILL TWO 1/8" HOLES IN THE LANDING GEAR FOR THE MOUNTING BOLTS. USE THESE HOLES AS A GUIDE TO DRILL THE BOTTOM OF THE FUSELAGE. ENLARGE THE HOLES IN THE FUSELAGE TO 5/32" AND GLUE IN THE BLIND NUTS. MOUNT THE WHEELS WITH THE 4-40 X 1" BOLTS AND NUTS.

COVERING AND TRIM: SAND THE MODEL WITH FINE SANDPAPER AND COVER WITH LOW TEMPERATURE FILM. HIGH TEMPERATURES WILL MELT THE FOAM WING. COVER AND DECORATE THE PARTS BEFORE GLUING ON THE TAIL PARTS. CUT AWAY STRIPS OF COVERING UNDER THE BOTTOM OF THE CANOPY AND EPOXY IN PLACE. CUT OUT THE DECALS AND APPLY USING SOAPY WATER OR SPRAY CLEANER UNDER THE DECALS TO POSITION AND WORK OUT ANY BUBBLES.

STEP SIX: THE SIMPLE CAP CAN BE FLOWN WITH TWO STANDARD SERVOS CONTROLLING THE AILERONS AND ELEVATOR. MOUNT THE ELEVATOR SERVO TO ONE SIDE OF THE FUSELAGE AND MOUNT THE AILERON SERVO IN THE WING ON THE OTHER SIDE. WITH MINI OR MICRO-SIZED SERVOS, RUDDER AND THROTTLE CAN BE ADDED. USE ACE "NO NOISE" FLEX THROTTLE.

FLYING: USE COX 6 X 3 GRAY COMPETITION PROPS AND COX SUPER POWER FUEL FOR THE BEST PERFORMANCE FROM THE .049 ENGINES. THE SIMPLE CAP WILL TAKE OFF FROM A SMOOTH SURFACE OR IT CAN BE HAND LAUNCHED BY AN UNDERHAND TOSS, HOLDING THE MODEL JUST AHEAD OF THE CANOPY. TAKE IT UP, TRIM IT OUT, WRING IT OUT. THE SIMPLE CAP WILL DO EVERY TRICK IN THE BOOK.

STEP FOUR

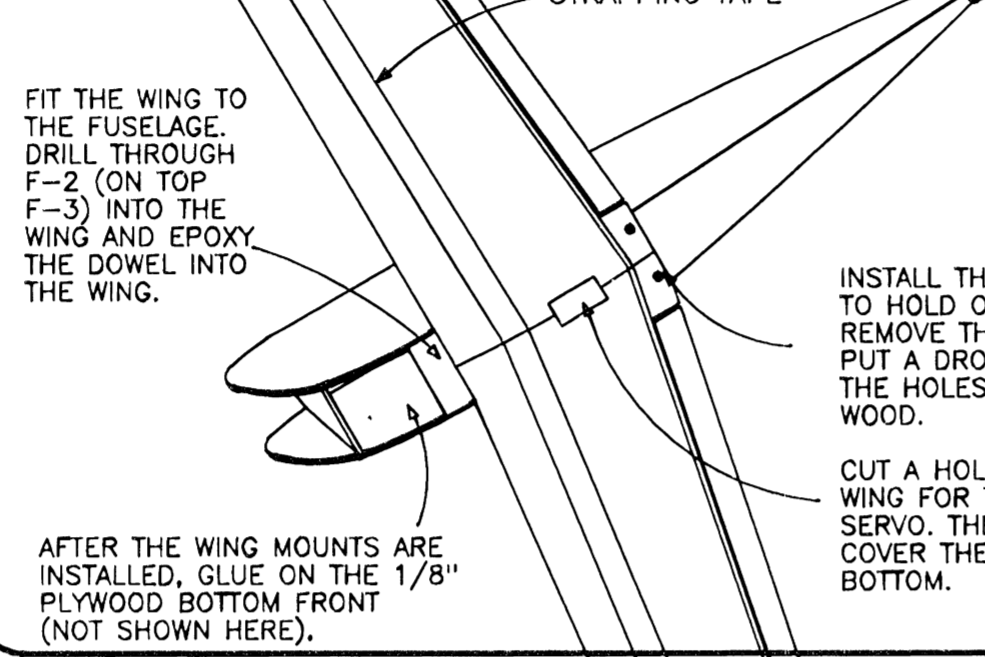


GLUE THE 1/8" X 1/4" STRIPS TO THE BACK EDGE OF THE WING PANELS. FIT THE AILERONS AND CUT OFF THE 1-1/2" INBOARD SECTION FOR THE LINKAGE. NOTCH THE INBOARD SECTION FOR THE LINKAGE. GLUE THE LINKAGE AND INBOARD SECTION TO THE WING.

EPOXY THE WING PANELS TOGETHER, BLOCKING UP ONE WING TIP 2". APPLY STRAPPING TAPE TOP AND BOTTOM FROM TIP TO TIP.

FIN AND RUDDER

STEP FIVE



STEP SIX

VIEW THE BOTTOM OF THE FUSELAGE.

ACE "NO NOISE" FLEX THROTTLE CABLE (NOT FURNISHED).

GLUE IN DIECUT PLY SERVO RAILS USING THE CUTOOUT IN THE SIDE DOUBLER AS A LEDGE.

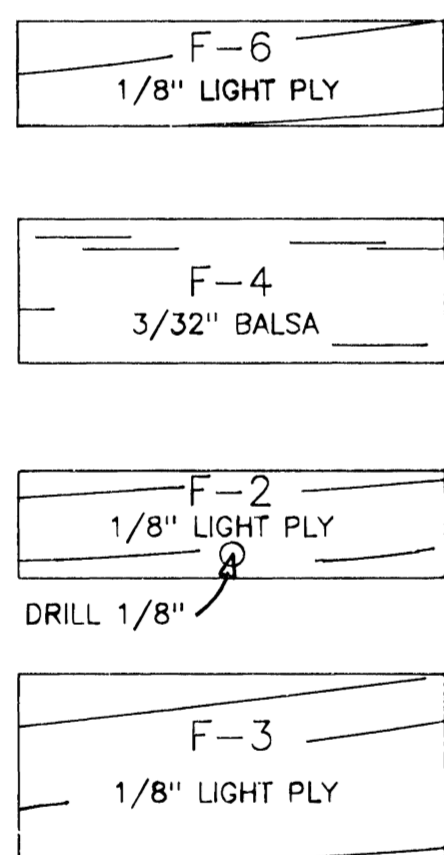
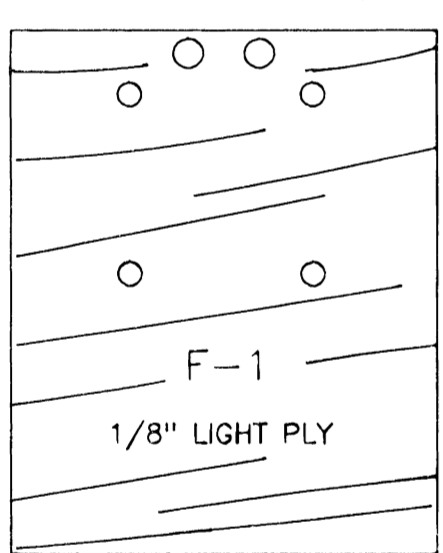
FOUR CHANNEL MICRO SYSTEM SHOWN. EZ-CONNECTORS LINK THE 1/16" WIRE PUSHRODS TO THE SERVOS AND PROVIDE ADJUSTMENTS. 90° BENDS AND NYLON KEEPERS SECURE THE PUSHRODS AT THE CONTROL HORNS.

SPACE FOR AILERON SERVO AND AILERON LINKAGE MOUNTED IN THE WING.

Balsa AND 1/8" PLYWOOD SERVO MOUNTS TRIM TO FIT.

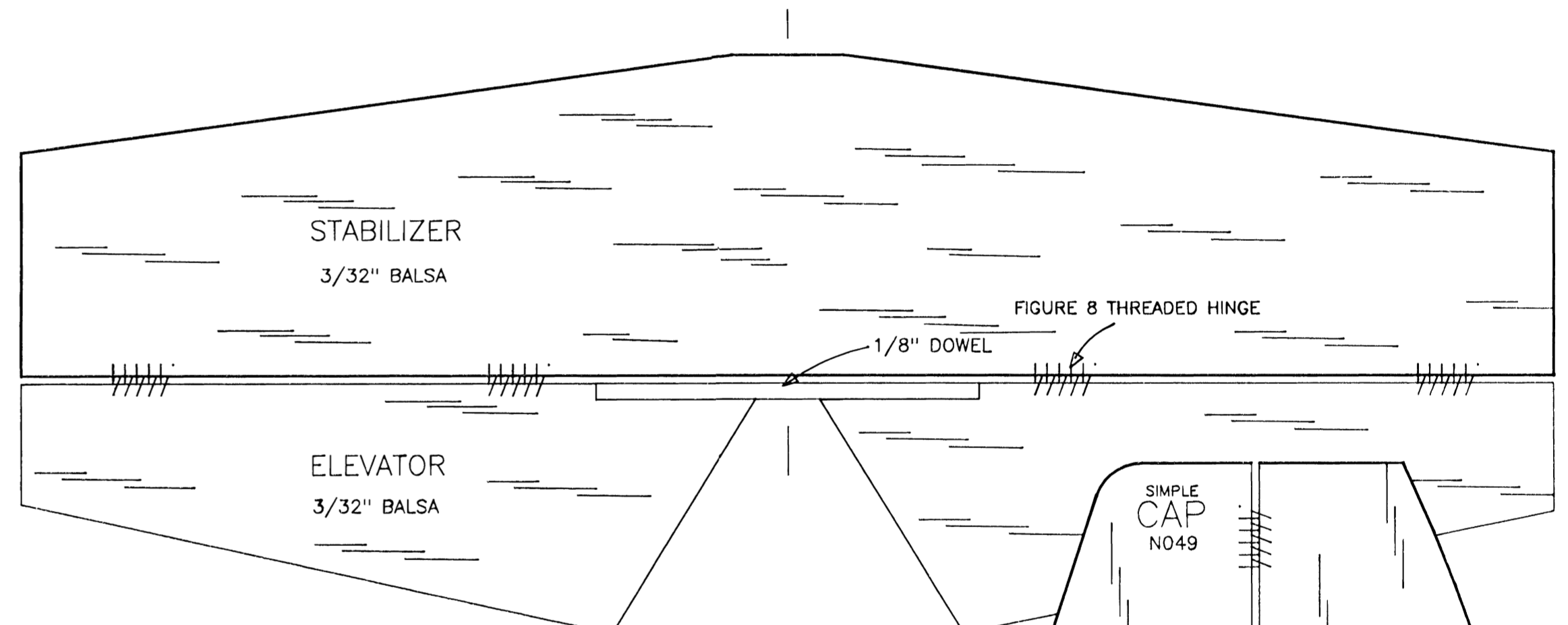
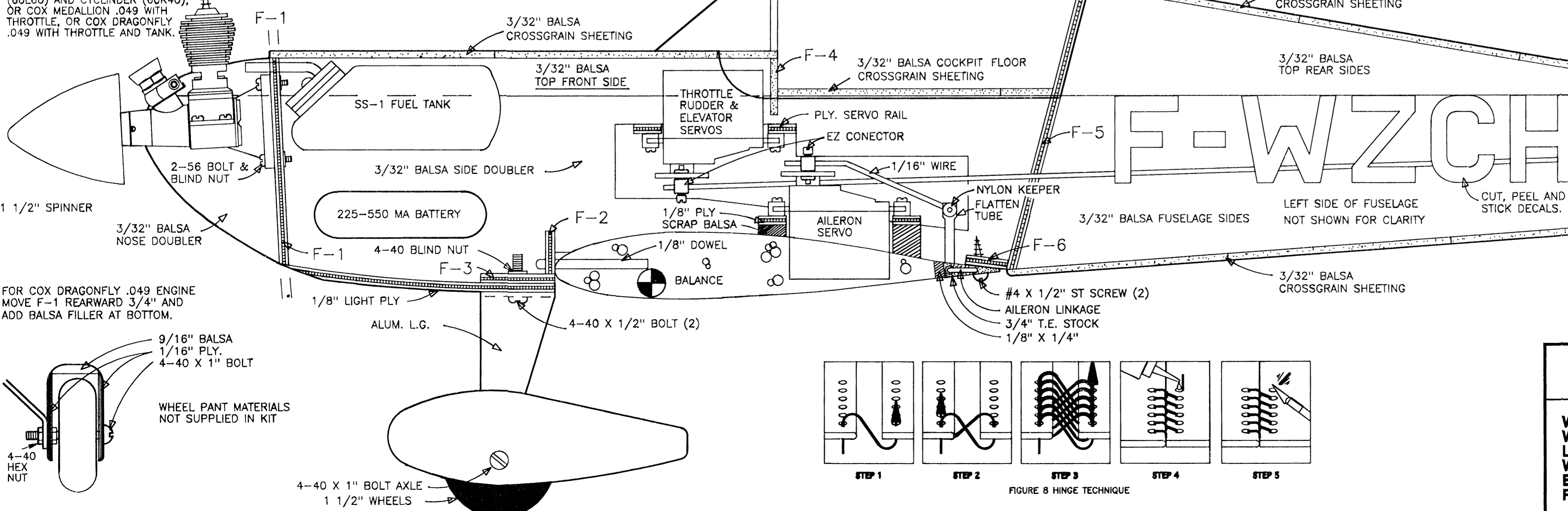
FIGURE 8 THREAD HINGE

DRILL MOTOR MOUNT HOLES 1/8" AND FUEL LINE HOLES 5/32"

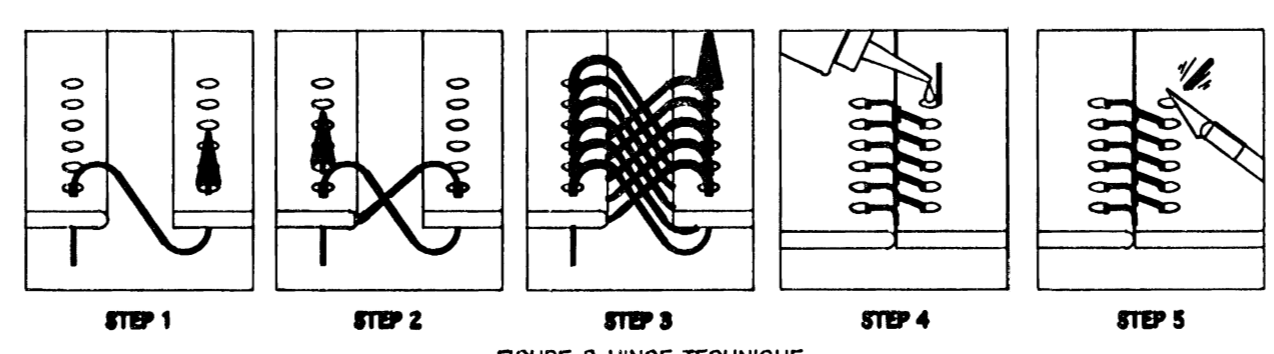


COX TD .049 ENGINE SHOWN ON ACE R/C 1/2A MOTOR MOUNT.

FOR THROTTLE CONTROL, USE AN ACE R/C THROTTLE SLEEVE (60L60) AND CYLINDER (60K40), OR COX MEDALLION .049 WITH THROTTLE, OR COX DRAGONFLY .049 WITH THROTTLE AND TANK.



CONTROL MOVEMENT
AILERONS: 5/32" UP AND DOWN
ELEVATOR: 3/8" UP AND DOWN
RUDDER: 1" RIGHT AND LEFT



SIMPLE CAP 21

DESIGNED AND DRAWN BY FRED REESE

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ACE R/C, INC.

116 W 19 ST, POB472, HIGGINSVILLE, MO 64037-0472

WING SPAN: 35"
WING AREA: 188 SQ IN
LENGHT: 27-1/2"
WEIGHT: 21 OZ
ENGINE: .049
RADIO: 2-3 CHANNEL

WHEELS: 1 1/2" DIA.
AXLES: 4-40 X 1" DIA.
BOLTS: 4-40 X 1" DIA.
NUTS: 4-40 X 1" DIA.