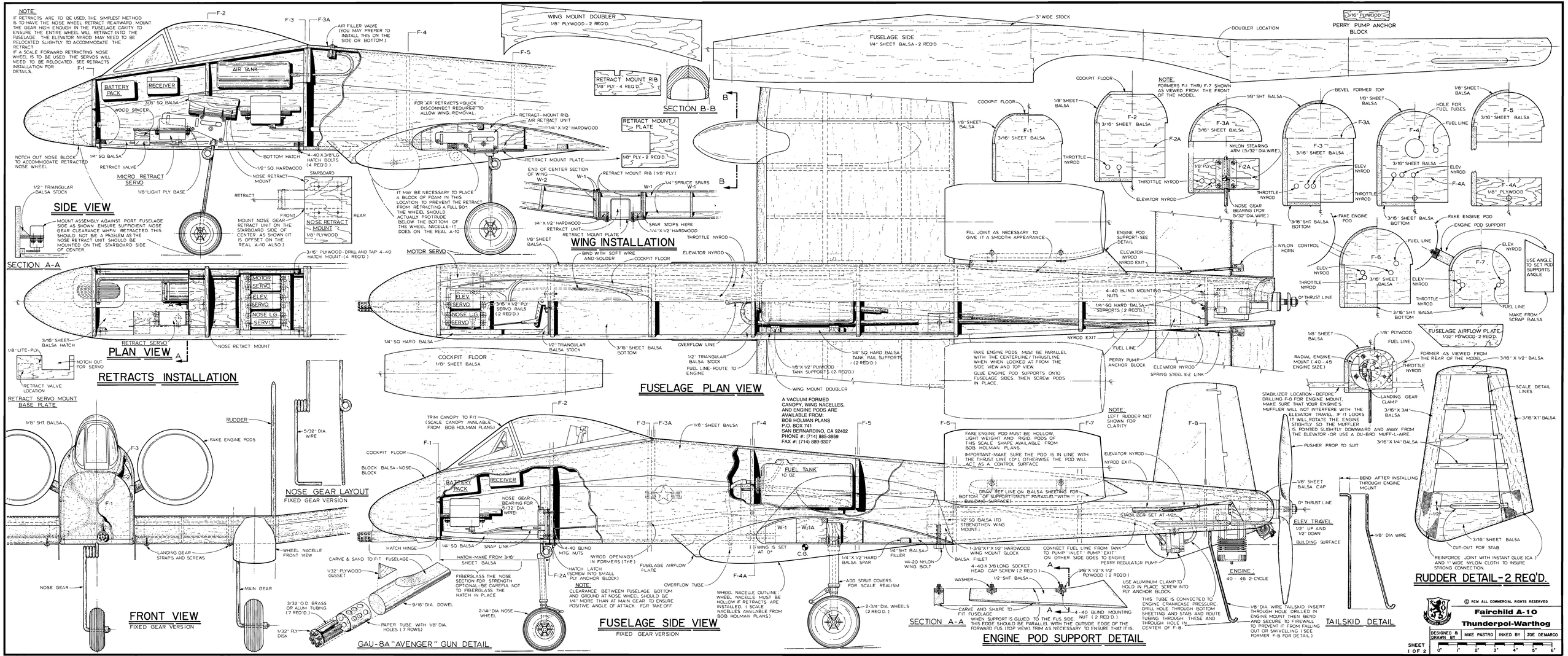
NOTE:
IF RETRACTS ARE TO BE USED, THE SIMPLEST METHOD IS TO HAVE THE NOSE WHEEL RETRACT REARWARD. MOUNT THE GEAR HIGH ENOUGH IN THE FUSELAGE CAVITY TO ENSURE THE ENTIRE WHEEL WILL RETRACT INTO THE FUSELAGE. THE ELEVATOR NYROD MAY NEED TO BE RELOCATED SLIGHTLY TO ACCOMMODATE THE RETRACT.
IF A SCALE FORWARD RETRACTING NOSE WHEEL IS TO BE USED THE SERVOS WILL NEED TO BE RELOCATED. SEE RETRACTS INSTALLATION FOR DETAILS.
SIDE VIEW
SECTION A-A
PLAN VIEW
RETRACTS INSTALLATION
RETRACT SERVO MOUNT BASE PLATE
NOSE GEAR LAYOUT
FIXED GEAR VERSION
FRONT VIEW
FIXED GEAR VERSION
GAU-8A "AVENGER" GUN DETAIL
WING INSTALLATION
FUSELAGE PLAN VIEW
FUSELAGE SIDE VIEW
FIXED GEAR VERSION
SECTION B-B
A VACUUM FORMED CANOPY, WING NACELLES, AND ENGINE PODS ARE AVAILABLE FROM:
BOB HOLMAN PLANS
P.O. BOX 741
SAN BERNARDINO, CA 92402
PHONE #: (714) 885-3959
FAX #: (714) 889-9307
ENGINE POD SUPPORT DETAIL
SECTION A-A
TAILSKID DETAIL
RUDDER DETAIL-2 REQ'D.
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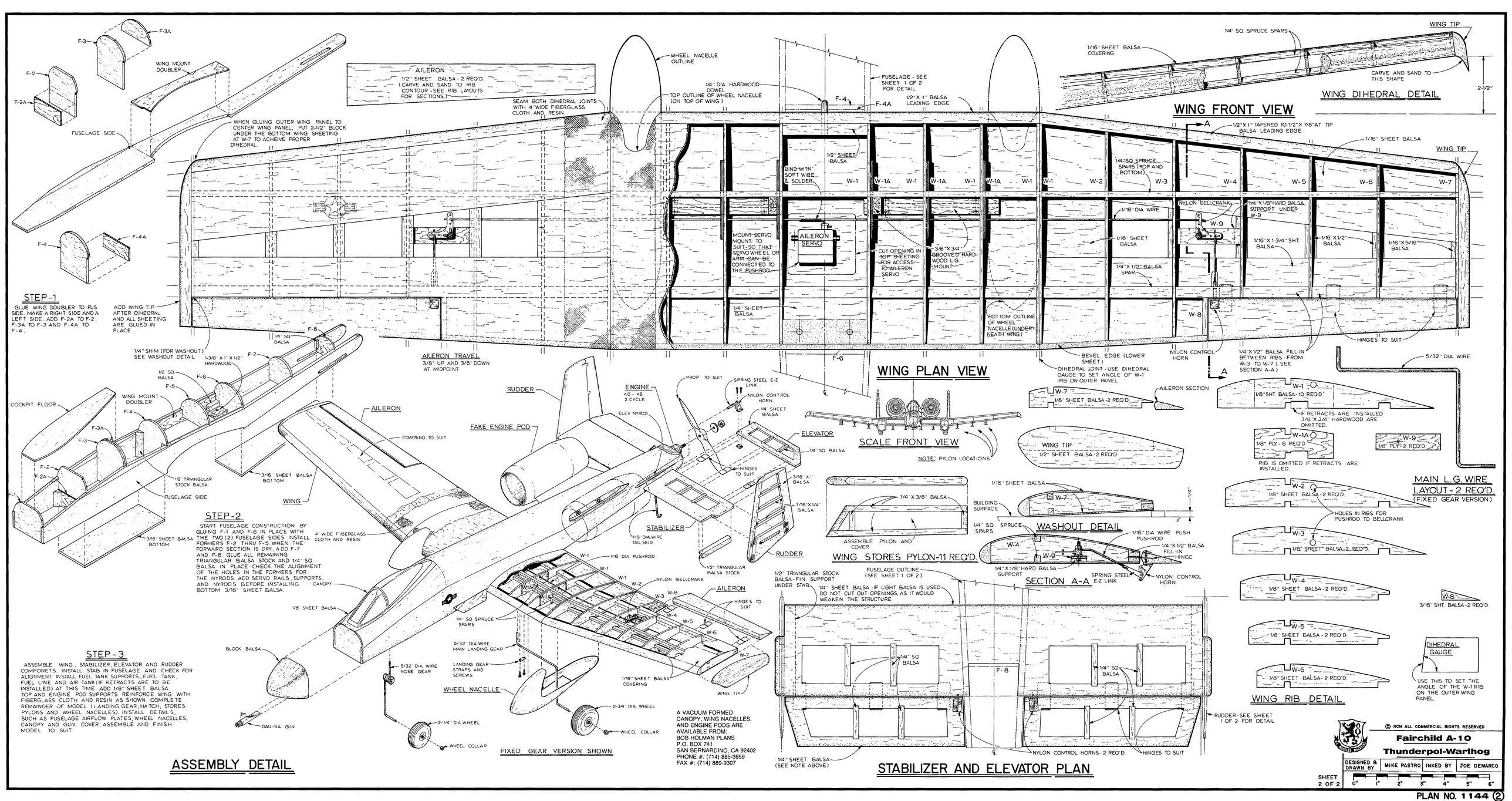
Fairchild A-10
Thunderpol-Warthog
DESIGNED & DRAWN BY MIKE PASTRO
INKED BY JOE DEMARCO
SHEET 1 OF 2
PLAN NO. 1144 (2)


STEP-1
GLUE WING DOUBLER TO FUSSIDE. MAKE A RIGHT SIDE AND A LEFT SIDE. ADD F-2A TO F-2, F-3A TO F-3 AND F-4A TO F-4.
F-3
F-3A
F-2
F-2A
WING MOUNT DOUBLER
FUSELAGE SIDE
F-4
F-4A
AILERON
1/2" SHEET BALSA - 2 REQ'D. (CARVE AND SAND TO RIB CONTOUR - SEE RIB LAYOUTS FOR SECTIONS)
WHEN GLUING OUTER WING PANEL TO CENTER WING PANEL, PUT 2-1/2" BLOCK UNDER THE BOTTOM WING SHEETING AT W-7 TO ACHEIVE PROPER DIHEDRAL.
SEAM BOTH DIHEDRAL JOINTS WITH 4" WIDE FIBERGLASS CLOTH AND RESIN
WHEEL NACELLE OUTLINE
TOP OUTLINE OF WHEEL NACELLE (ON TOP OF WING)
1/4" DIA. HARDWOOD DOWEL
FUSELAGE - SEE SHEET 1 OF 2 FOR DETAIL
1/2" X 1" BALSA LEADING EDGE
1/2" SHEET BALSA
BIND WITH SOFT WIRE & SOLDER
MOUNT SERVO MOUNT TO SUIT - SO THAT SERVO WHEEL OR ARM CAN BE CONNECTED TO THE PUSHROD
AILERON SERVO
CUT OPENING IN TOP SHEETING FOR ACCESS TO AILERON SERVO
3/8" X 3/4" GROOVED HARDWOOD L.G. MOUNT
1/4" SHEET BALSA
BOTTOM OUTLINE OF WHEEL NACELLE (UNDERNEATH WING)
ADD WING TIP AFTER DIHEDRAL AND ALL SHEETING ARE GLUED IN PLACE
1/4" SHIM (FOR WASHOUT) SEE WASHOUT DETAIL
1/4" SQ BALSA
1-3/8" X 1" X 1/2" HARDWOOD
AILERON TRAVEL
3/8" UP AND 3/8" DOWN AT MIDPOINT
F-6
F-7
F-8
1/2" SQ BALSA
WING MOUNT DOUBLER
COCKPIT FLOOR
1/2" TRIANGULAR STOCK BALSA
3/16" SHEET BALSA BOTTOM
FUSELAGE SIDE
STEP-2
START FUSELAGE CONSTRUCTION BY GLUING F-1 AND F-6 IN PLACE WITH THE TWO (2) FUSELAGE SIDES. INSTALL FORMERS F-2 THRU F-5 WHEN THE FORWARD SECTION IS DRY. ADD F-7 AND F-8. GLUE ALL REMAINING TRIANGULAR BALSA STOCK AND 1/4" SQ BALSA IN PLACE. CHECK THE ALIGNMENT OF THE HOLES IN THE FORMERS FOR THE NYRODS. ADD SERVO RAILS, SUPPORTS, AND NYRODS BEFORE INSTALLING BOTTOM 3/16" SHEET BALSA.
4" WIDE FIBERGLASS CLOTH AND RESIN
RUDDER
AILERON
COVERING TO SUIT
FAKE ENGINE POD
WING
ENGINE 40 - 46 2 CYCLE
ELEV NYROD
PROP TO SUIT
SPRING STEEL E-Z LINK
NYLON CONTROL HORN
1/4" SHEET BALSA
ELEVATOR
1/4" SQ BALSA
HINGES TO SUIT
3/16" X 1" BALSA
3/16" X 1/4" BALSA
STABILIZER
1/8" DIA. WIRE TAIL SKID
RUDDER
1/2" TRIANGULAR BALSA STOCK
1/16" DIA PUSHROD
NYLON BELLCRANK
AILERON
HINGES TO SUIT
1/4" SQ SPRUCE SPARS
5/32" DIA WIRE - MAIN LANDING GEAR
LANDING GEAR STRAPS AND SCREWS
1/16" SHEET BALSA COVERING
WING TIP
CANOPY
1/8" SHEET BALSA
BLOCK BALSA
5/32" DIA. WIRE NOSE GEAR
WHEEL NACELLE
2-3/4" DIA WHEEL
2-1/4" DIA WHEEL
WHEEL COLLAR
GAU-8A GUN
STEP-3
ASSEMBLE WING, STABILIZER, ELEVATOR AND RUDDER COMPONETS. INSTALL STAB IN FUSELAGE AND CHECK FOR ALIGNMENT. INSTALL FUEL TANK SUPPORTS, FUEL TANK, FUEL LINE AND AIR TANK (IF RETRACTS ARE TO BE INSTALLED) AT THIS TIME. ADD 1/8" SHEET BALSA TOP AND ENGINE POD SUPPORTS. REINFORCE WING WITH FIBERGLASS CLOTH AND RESIN AS SHOWN. COMPLETE REMAINDER OF MODEL (LANDING GEAR, HATCH, STORES PYLONS AND WHEEL NACELLES). INSTALL DETAILS, SUCH AS FUSELAGE AIRFLOW PLATES, WHEEL NACELLES, CANOPY AND GUN. COVER, ASSEMBLE AND FINISH MODEL TO SUIT.
ASSEMBLY DETAIL
FIXED GEAR VERSION SHOWN
A VACUUM FORMED CANOPY, WING NACELLES, AND ENGINE PODS ARE AVAILABLE FROM: BOB HOLMAN PLANS P.O. BOX 741 SAN BERNARDINO, CA 92402 PHONE #: (714) 885-3959 FAX #: (714) 889-9307
WING PLAN VIEW
SCALE FRONT VIEW
NOTE: PYLON LOCATIONS
WING FRONT VIEW
1/4" SQ SPRUCE SPARS
1/16" SHEET BALSA COVERING
WING TIP
CARVE AND SAND TO THIS SHAPE
2-1/2"
WING DIHEDRAL DETAIL
1/2" X 1" TAPERED TO 1/2" X 7/8" AT TIP BALSA LEADING EDGE
1/16" SHEET BALSA
1/4" SQ SPRUCE SPARS (TOP AND BOTTOM)
NYLON BELLCRANK
1/4" X 1/8" HARD BALSA SUPPORT UNDER W-9
1/16" DIA WIRE
1/16" SHEET BALSA
1/4" X 1/2" BALSA SPAR
1/16" X 1-3/4" SHT BALSA
1/16" X 1/2" BALSA
1/16" X 5/16" BALSA
HINGES TO SUIT
BEVEL EDGE (LOWER SHEET)
DIHEDRAL JOINT - USE DIHEDRAL GAUGE TO SET ANGLE OF W-1 RIB ON OUTER PANEL
NYLON CONTROL HORN
1/4" X 1/2" BALSA FILL-IN BETWEEN RIBS - FROM W-3 TO W-7 (SEE SECTION A-A)
5/32" DIA. WIRE
AILERON SECTION
1/8" SHEET BALSA - 2 REQ'D.
1/8" SHT BALSA - 10 REQ'D.
IF RETRACTS ARE INSTALLED 3/8" X 3/4" HARDWOOD ARE OMITTED.
1/8" PLY - 6 REQ'D.
1/8" PLY - 2 REQ'D.
RIB IS OMITTED IF RETRACTS ARE INSTALLED.
WING TIP
1/2" SHEET BALSA - 2 REQ'D.
MAIN L.G. WIRE LAYOUT - 2 REQ'D. (FIXED GEAR VERSION)
1/4" X 3/8" BALSA
ASSEMBLE PYLON AND COVER
WING STORES PYLON - 11 REQ'D.
1/16" SHEET BALSA
BUILDING SURFACE
1/4" SQ SPRUCE SPARS
WASHOUT DETAIL
1/16" DIA WIRE PUSH PUSHROD
1/4" X 1/2" BALSA FILL-IN
HINGE
1/4" X 1/8" HARD BALSA SUPPORT
SPRING STEEL E-Z LINK
NYLON CONTROL HORN
SECTION A-A
HOLES IN RIBS FOR PUSHROD TO BELLCRANK
1/8" SHEET BALSA - 2 REQ'D.
1/8" SHEET BALSA - 2 REQ'D.
3/16" SHT BALSA - 2 REQ'D.
1/8" SHEET BALSA - 2 REQ'D.
1/8" SHEET BALSA - 2 REQ'D.
WING RIB DETAIL
DIHEDRAL GAUGE
USE THIS TO SET THE ANGLE OF THE W-1 RIB ON THE OUTER WING PANEL.
1/2" TRIANGULAR STOCK BALSA - FIN SUPPORT UNDER STAB.
1/4" SHEET BALSA - IF LIGHT BALSA IS USED DO NOT CUT OUT OPENINGS, AS IT WOULD WEAKEN THE STRUCTURE
FUSELAGE OUTLINE (SEE SHEET 1 OF 2)
1/4" SQ BALSA
F-8
RUDDER - SEE SHEET 1 OF 2 FOR DETAIL
NYLON CONTROL HORNS - 2 REQ'D.
HINGES TO SUIT
1/4" SHEET BALSA (SEE NOTE ABOVE)
STABILIZER AND ELEVATOR PLAN
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Fairchild A-10
Thunderpol-Warthog
DESIGNED & DRAWN BY
MIKE PASTRO
INKED BY
JOE DEMARCO
SHEET 2 OF 2
0" 1" 2" 3" 4" 5" 6"
PLAN NO. 1144 (2)