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.
F-1
F-2
F-3
F-3A
F-4
F-5
AIR FILLER VALVE (YOU MAY PREFER TO INSTALL THIS ON THE SIDE OR BOTTOM)
AIR TANK
BATTERY PACK
RECEIVER
3/8" SQ BALSA
WOOD SPACER
NOTCH OUT NOSE BLOCK TO ACCOMMODATE RETRACTED NOSE WHEEL
1/4" SQ BALSA
RETRACT VALVE
MICRO RETRACT SERVO
1/8" LIGHT PLY BASE
1/2" SQ HARDWOOD
BOTTOM HATCH
4-40 X 3/8" LG HATCH BOLTS (4 REQ'D.)
NOSE RETRACT MOUNT
1/2" TRIANGULAR BALSA STOCK
SIDE VIEW
MOUNT ASSEMBLY AGAINST PORT FUSELAGE SIDE AS SHOWN. ENSURE SUFFICIENT NOSE GEAR CLEARANCE WHEN RETRACTED. THIS SHOULD NOT BE A PROBLEM AS THE NOSE RETRACT UNIT SHOULD BE MOUNTED ON THE STARBOARD SIDE OF CENTER.
RETRACT
STARBOARD
FRONT
REAR
NOSE RETRACT MOUNT
1/8" PLYWOOD
MOUNT NOSE GEAR RETRACT UNIT ON THE STARBOARD SIDE OF CENTER AS SHOWN (IT IS OFFSET ON THE REAL A-10 ALSO)
SECTION A-A
3/16" PLYWOOD - DRILL AND TAP 4-40 HATCH MOUNT - (4 REQ'D.)
MOTOR SERVO
ELEV SERVO
NOSE L.G. SERVO
3/16" SHEET BALSA HATCH
RETRACT SERVO
NOSE RETRACT MOUNT
PLAN VIEW
1/8" LITE-PLY
NOTCH OUT FOR SERVO
RETRACTS INSTALLATION
RETRACT VALVE LOCATION
RETRACT SERVO MOUNT BASE PLATE
WING MOUNT DOUBLER
1/8" PLYWOOD - 2 REQ'D.
RETRACT MOUNT RIB
1/8" PLY - 4 REQ'D.
SECTION B-B
B
RETRACT MOUNT PLATE
1/8" PLY - 2 REQ'D.
FOR AIR RETRACTS QUICK DISCONNECT REQUIRED TO ALLOW WING REMOVAL.
RETRACT MOUNT RIB
AIR RETRACT UNIT
1/4" X 1/2" HARDWOOD
RETRACT MOUNT PLATE
IT MAY BE NECESSARY TO PLACE A BLOCK OF FOAM IN THIS LOCATION TO PREVENT THE RETRACT FROM RETRACTING A FULL 90°. THE WHEEL SHOULD ACTUALLY PROTRUDE BELOW THE BOTTOM OF THE WHEEL NACELLE - IT DOES ON THE REAL A-10
END OF CENTER SECTION OF WING
W-2
W-1
RETRACT MOUNT RIB (1/8" PLY)
1/4" SPRUCE SPARS
1/4" X 1/2" HARDWOOD
RETRACT UNIT
RETRACT MOUNT PLATE
SPAR STOPS HERE
1/4" X 1/2" HARDWOOD
WING INSTALLATION
1/8" SHEET BALSA
BIND WITH SOFT WIRE AND SOLDER
COCKPIT FLOOR
THROTTLE NYROD
ELEVATOR NYROD
ELEV SERVO
NOSE L.G. SERVO
3/16" X 1/2" PLY SERVO RAILS (2 REQ'D.)
1/4" SQ HARD BALSA
1/2" TRIANGULAR BALSA STOCK
3/16" SHEET BALSA BOTTOM
OVERFLOW LINE
1/2" TRIANGULAR BALSA STOCK
FUEL LINE - ROUTE TO ENGINE
1/8" X 1/2" PLYWOOD TANK SUPPORTS (2 REQ'D.)
1/4" SQ HARD BALSA TANK RAIL SUPPORTS (2 REQ'D.)
WING MOUNT DOUBLER
COCKPIT FLOOR
1/8" SHEET BALSA
3" WIDE STOCK
FUSELAGE SIDE
1/4" SHEET BALSA - 2 REQ'D
DOUBLER LOCATION
3/16" PLYWOOD
PERRY PUMP ANCHOR BLOCK
FILL JOINT AS NECESSARY TO GIVE IT A SMOOTH APPEARANCE
ENGINE POD SUPPORT - SEE DETAIL
ELEVATOR NYROD
NYROD EXIT
NYLON CONTROL HORN
4-40 BLIND MOUNTING NUTS
1/4" SQ HARD BALSA SUPPORTS (2 REQ'D.)
0° THRUST LINE
NYROD EXIT
FUEL LINE
PERRY PUMP ANCHOR BLOCK
ELEVATOR NYROD
SPRING STEEL E-Z LINK
FAKE ENGINE PODS MUST BE PARALLEL WITH THE CENTERLINE / THRUSTLINE WHEN WHEN LOOKED AT FROM THE SIDE VIEW AND TOP VIEW. GLUE ENGINE POD SUPPORTS ONTO FUSELAGE SIDES, THEN SCREW PODS IN PLACE.
NOTE:
FORMERS F-1 THRU F-7 SHOWN AS VIEWED FROM THE FRONT OF THE MODEL.
COCKPIT FLOOR
1/8" SHEET BALSA
3/16" SHEET BALSA
THROTTLE NYROD
F-2A
1/8" SHT BALSA
F-3A
3/16" SHEET BALSA
NYLON STEARING ARM (5/32" DIA.WIRE)
1/8" PLY
THROTTLE NYROD
ELEVATOR NYROD
NOSE GEAR BEARING (FOR 5/32" DIA.WIRE)
BEVEL FORMER TOP
ELEV NYROD
3/16" SHT BALSA BOTTOM
HOLE FOR FUEL TUBES
FUEL LINE
3/16" SHEET BALSA
F-4A
1/8" PLYWOOD
FAKE ENGINE POD
3/16" SHEET BALSA BOTTOM
FAKE ENGINE POD
ENGINE POD SUPPORT
F-6
F-7
ELEV NYROD
THROTTLE NYROD
3/16" SHEET BALSA
3/16" SHT BALSA BOTTOM
FUEL LINE
USE ANGLE TO SET POD SUPPORTS ANGLE
MAKE FROM SCRAP BALSA


FUSELAGE PLAN VIEW
1/8" SHT. BALSA
F-3
F-2
F-1
RUDDER
FAKE ENGINE PODS
5/32" DIA WIRE
NOSE GEAR LAYOUT
FIXED GEAR VERSION
LANDING GEAR STRAPS AND SCREWS
WHEEL NACELLE FRONT VIEW
NOSE GEAR
MAIN GEAR
FRONT VIEW
FIXED GEAR VERSION
TRIM CANOPY TO FIT (SCALE CANOPY AVAILABLE FROM BOB HOLMAN PLANS)
COCKPIT FLOOR
BLOCK BALSA-NOSE BLOCK
BATTERY PACK
RECEIVER
NOSE GEAR BEARING FOR 5/32" DIA. WIRE
HATCH HINGE
1/4" SQ BALSA
SNAP LINK
4-40 BLIND MTG NUTS
NYROD OPENINGS IN FORMERS (TYP.)
HATCH-MAKE FROM 3/16" SHEET BALSA
HATCH LATCH (SCREW INTO SMALL PLY ANCHOR BLOCK)
FUSELAGE AIRFLOW PLATE
CARVE & SAND TO FIT FUSELAGE
1/32" PLYWOOD GUSSET
FIBERGLASS THE NOSE SECTION FOR STRENGTH OPTIONAL-BE CAREFUL NOT TO FIBERGLASS THE HATCH IN PLACE
9/16" DIA. DOWEL
3/32" O.D. BRASS OR ALUM TUBING (7 REQ'D.)
PAPER TUBE WITH 1/8" DIA HOLES (7 ROWS)
1/32" PLY DISK
GAU-8A "AVENGER" GUN DETAIL
F-2A
NOTE:
CLEARANCE BETWEEN FUSELAGE BOTTOM AND GROUND AT NOSE WHEEL SHOULD BE 1/4" MORE THAN AT MAIN GEAR TO ENSURE POSITIVE ANGLE OF ATTACK FOR TAKE OFF
2-1/4" DIA NOSE WHEEL
FUSELAGE SIDE VIEW
FIXED GEAR VERSION
F-3 F-3A
1/8" SHEET BALSA
F-4
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
F-5
FUEL TANK
10 OZ
W-1
W-1A
WING IS SET AT 0°
C.G.
OVERFLOW TUBE
F-4A
WHEEL NACELLE OUTLINE: WHEEL NACELLE MUST BE HOLLOW IF RETRACTS ARE INSTALLED. (SCALE NACELLES AVAILABLE FROM BOB HOLMAN PLANS)
1/4" X 1/2" HARD BALSA SPAR
1/4" SHT. BALSA FILLER
1/4-20 NYLON WING BOLT
ADD STRUT COVERS FOR SCALE REALISM
2-3/4" DIA WHEELS (2 REQ'D.)
1/2" SQ BALSA (TO STRENGTHEN WING MOUNT)
F-6
F-7
FAKE ENGINE POD MUST BE HOLLOW, LIGHT WEIGHT AND RIGID. PODS OF THIS SCALE SHAPE AVAILABLE FROM BOB HOLMAN PLANS.
IMPORTANT-MAKE SURE THE POD IS IN LINE WITH THE THRUST LINE (0°), OTHERWISE THE POD WILL ACT AS A CONTROL SURFACE
DRAW REF LINE ON BALSA SHEETING FOR BOTTOM OF SUPPORT-(MUST PARALLEL WITH BUILDING SURFACE)
BALSA FILLET
1-3/8" X 1" X 1/2" HARDWOOD WING MOUNT BLOCK
NOTE:
LEFT RUDDER NOT SHOWN FOR CLARITY
ELEVATOR NYROD
NYROD EXIT
F-8
STABILIZER SET AT +1/2°
CONNECT FUEL LINE FROM TANK TO PUMP "INLET" PUMP "EXIT" ON OTHER SIDE GOES TO ENGINE
PERRY REGULATOR PUMP
4-40 X 3/8 LONG SOCKET HEAD CAP SCREW (2 REQ'D.)
WASHER
1/2" SHT BALSA
3/16" X 1/2" X 1/2" PLYWOOD (2 REQ'D.)
4-40 BLIND MOUNTING NUT (2 REQ'D.)
CARVE AND SHAPE TO FIT FUSELAGE
WHEN SUPPORT IS GLUED TO THE FUS. SIDE, THIS EDGE SHOULD BE PARALLEL WITH THE OUTSIDE EDGE OF THE FORWARD FUS (TOP VIEW). TRIM AS NECESSARY TO ENSURE THAT IT IS.
SECTION A-A
ENGINE POD SUPPORT DETAIL
USE ALUMINUM CLAMP TO HOLD IN PLACE. SCREW INTO PLY ANCHOR BLOCK.
THIS TUBE IS CONNECTED TO ENGINE CRANKCASE PRESSURE. DRILL HOLE THROUGH BOTTOM SHEETING AND STAB AND ROUTE TUBING THROUGH THESE AND THROUGH HOLE IN CENTER OF F-8.
ENGINE:
40 - 46 2-CYCLE
ELEV TRAVEL
1/2" UP AND 1/2" DOWN
BUILDING SURFACE
1/8" SHEET BALSA CAP
0° THRUST LINE
1/8" SHEET BALSA
1/8" PLYWOOD
FUEL LINE
RADIAL ENGINE MOUNT (40-45 ENGINE SIZE)
FORMER AS VIEWED FROM THE REAR OF THE MODEL
THROTTLE NYROD
LANDING GEAR CLAMP
STABILIZER LOCATION - BEFORE DRILLING F-8 FOR ENGINE MOUNT, MAKE SURE THAT YOUR ENGINE'S MUFFLER WILL NOT INTERFERE WITH THE ELEVATOR TRAVEL. IF IT LOOKS IT WILL, ROTATE THE ENGINE SLIGHTLY SO THE MUFFLER IS POINTED SLIGHTLY DOWNWARD AND AWAY FROM THE ELEVATOR -OR USE A DU-BRO MUFF-L-AIRE
PUSHER PROP TO SUIT
1/8" DIA WIRE TAILSKID INSERT THROUGH HOLE DRILLED IN ENGINE MOUNT THEN BEND AND SECURE TO FIREWALL TO PREVENT IT FROM FALLING OUT OR SWIVELLING (SEE FORMER F-8 FOR DETAIL).
BEND AFTER INSTALLING THROUGH ENGINE MOUNT
1/8" DIA WIRE
TAILSKID DETAIL
FUSELAGE AIRFLOW PLATE
1/32" PLYWOOD-2 REQ'D.
3/16" X 1/2" BALSA
SCALE DETAIL LINES
3/16" X 3/4" BALSA
3/16" X 1" BALSA
3/16" X 1/4" BALSA
1/2"
3/16" SHEET BALSA
CUT-OUT FOR STAB
REINFORCE JOINT WITH INSTANT GLUE (CA) AND 1" WIDE NYLON CLOTH TO INSURE STRONG CONNECTION.
RUDDER DETAIL-2 REQ'D.
© RCM ALL COMMERCIAL RIGHTS RESERVED
Fairchild A-10
Thunderpol-Warthog
DESIGNED & DRAWN BY MIKE PASTRO INKED BY JOE DEMARCO
SHEET 1 OF 2
0" 1" 2" 3" 4" 5" 6"
PLAN NO. 1144 (2)


F-3A
F-3
F-2
F-2A
WING MOUNT DOUBLER
FUSELAGE SIDE
F-4
F-4A
STEP-1
GLUE WING DOUBLER TO FUS SIDE. 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.
AILERON
1/2" SHEET BALSA - 2 REQ'D. (CARVE AND SAND TO RIB CONTOUR - SEE RIB LAYOUTS FOR SECTIONS.)
SEAM BOTH DIHEDRAL JOINTS WITH 4" WIDE FIBERGLASS CLOTH AND RESIN.
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.
ADD WING TIP AFTER DIHEDRAL AND ALL SHEETING ARE GLUED IN PLACE
1/4" SHIM (FOR WASHOUT) SEE WASHOUT DETAIL
AILERON TRAVEL
3/8" UP AND 3/8" DOWN AT MIDPOINT
WHEEL NACELLE OUTLINE
1/4" DIA. HARDWOOD DOWEL
TOP OUTLINE OF WHEEL NACELLE (ON TOP OF WING)
F-4
F-4A
FUSELAGE - SEE SHEET 1 OF 2 FOR DETAIL
1/2" X 1" BALSA LEADING EDGE
1/2" SHEET BALSA
BIND WITH SOFT WIRE & SOLDER
W-1
W-1A
W-1
W-1A
W-1
W-1A
W-1
W-1
AILERON SERVO
MOUNT SERVO MOUNT: TO SUIT-SO THAT SERVO WHEEL OR ARM CAN BE CONNECTED TO THE PUSHROD.
CUT OPENING IN TOP SHEETING FOR ACCESS TO AILERON SERVO
3/8" X 3/4" GROOVED HARD-WOOD L.G. MOUNT
1/4" SHEET BALSA
BOTTOM OUTLINE OF WHEEL NACELLE (UNDER-NEATH WING)
F-6
WING PLAN VIEW
1/16" SHEET BALSA COVERING
1/4" SQ. SPRUCE SPARS
WING TIP
CARVE AND SAND TO THIS SHAPE
2-1/2"
WING DIHEDRAL DETAIL
WING FRONT VIEW
A
1/2" X 1" TAPERED TO 1/2" X 7/8" AT TIP BALSA LEADING EDGE
1/16" SHEET BALSA
WING TIP
1/4" SQ. SPRUCE SPARS (TOP AND BOTTOM)
W-2
W-3
W-4
W-5
W-6
W-7
1/16" DIA. WIRE
NYLON BELLCRANK
1/4" X 1/8" HARD BALSA SUPPORT UNDER W-9
W-9
1/16" SHEET BALSA
1/16" X 1-3/4" SHT. BALSA
1/16" X 1/2" BALSA
1/16" X 5/16" BALSA
1/4" X 1/2" BALSA SPAR.
W-8
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)
A
5/32" DIA. WIRE
W-7
1/8" SHEET BALSA - 2 REQ'D.
AILERON SECTION
W-1
1/8" SHT. BALSA - 10 REQ'D.
IF RETRACTS ARE INSTALLED 3/8" X 3/4" HARDWOOD ARE OMITTED.
MAIN L.G. WIRE
LAYOUT - 2 REQ'D.
(FIXED GEAR VERSION)

COCKPIT FLOOR
F-1
F-2
F-2A
F-3
F-3A
F-4
WING MOUNT DOUBLER
F-5
1/2" SQ BALSA
F-6
1-3/8" X 1" X 1/2" HARDWOOD
F-7
1/4" SQ BALSA
F-8
1/2" TRIANGULAR STOCK BALSA
FUSELAGE SIDE
3/16" SHEET BALSA BOTTOM
3/16" SHEET BALSA BOTTOM
WING
AILERON
COVERING TO SUIT
RUDDER
FAKE ENGINE POD
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
1/2" TRIANGULAR BALSA STOCK
RUDDER
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 NYROD'S BEFORE INSTALLING BOTTOM 3/16" SHEET BALSA.
4" WIDE FIBERGLASS CLOTH AND RESIN
CANOPY
1/8" SHEET BALSA
W-1
1/16" DIA PUSHROD
W-1
W-1
W-2
NYLON BELLCRANK
W-3
W-8
W-4
W-5
W-6
W-7
W-1A
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
BLOCK BALSA
5/32" DIA WIRE NOSE GEAR
WHEEL NACELLE
2-3/4" DIA WHEEL
WHEEL COLLAR
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.
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
ASSEMBLY DETAIL
SCALE FRONT VIEW
NOTE: PYLON LOCATIONS
WING TIP
1/2" SHEET BALSA-2 REQ'D
1/16" SHEET BALSA
W-7
BUILDING SURFACE
1/4"
WASHOUT DETAIL
1/4" X 3/8" BALSA
ASSEMBLE PYLON AND COVER
WING STORES PYLON-11 REQ'D.
1/4" SQ. SPRUCE SPARS
W-4
W-9
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
W-1A
1/8" PLY- 6 REQ'D
W-9
1/8" PLY- 2 REQ'D
RIB IS OMITTED IF RETRACTS ARE INSTALLED.
W-2
1/8" SHEET BALSA-2 REQ'D.
HOLES IN RIBS FOR PUSHROD TO BELLCRANK
W-3
1/8" SHEET BALSA-2 REQ'D.
W-4
1/8" SHEET BALSA - 2 REQ'D.
W-8
3/16" SHT BALSA-2 REQ'D.
W-5
1/8" SHEET BALSA - 2 REQ'D.
W-6
1/8" SHEET BALSA- 2 REQ'D.
DIHEDRAL GAUGE
USE THIS TO SET THE ANGLE OF THE W-1 RIB ON THE OUTER WING PANEL.
WING RIB DETAIL
1/2" TRIANGULAR STOCK BALSA-FIN SUPPORT UNDER STAB.
FUSELAGE OUTLINE (SEE SHEET 1 OF 2)
1/4" SHEET BALSA -IF LIGHT BALSA IS USED DO NOT CUT OUT OPENINGS, AS IT WOULD WEAKEN THE STRUCTURE
1/4" SQ BALSA
F-8
1/4" SQ BALSA
RUDDER-SEE SHEET 1 OF 2 FOR DETAIL
1/4" SHEET BALSA (SEE NOTE ABOVE)
NYLON CONTROL HORNS-2 REQ'D.
HINGES TO SUIT
STABILIZER AND ELEVATOR PLAN
© RCM ALL COMMERCIAL RIGHTS RESERVED
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)