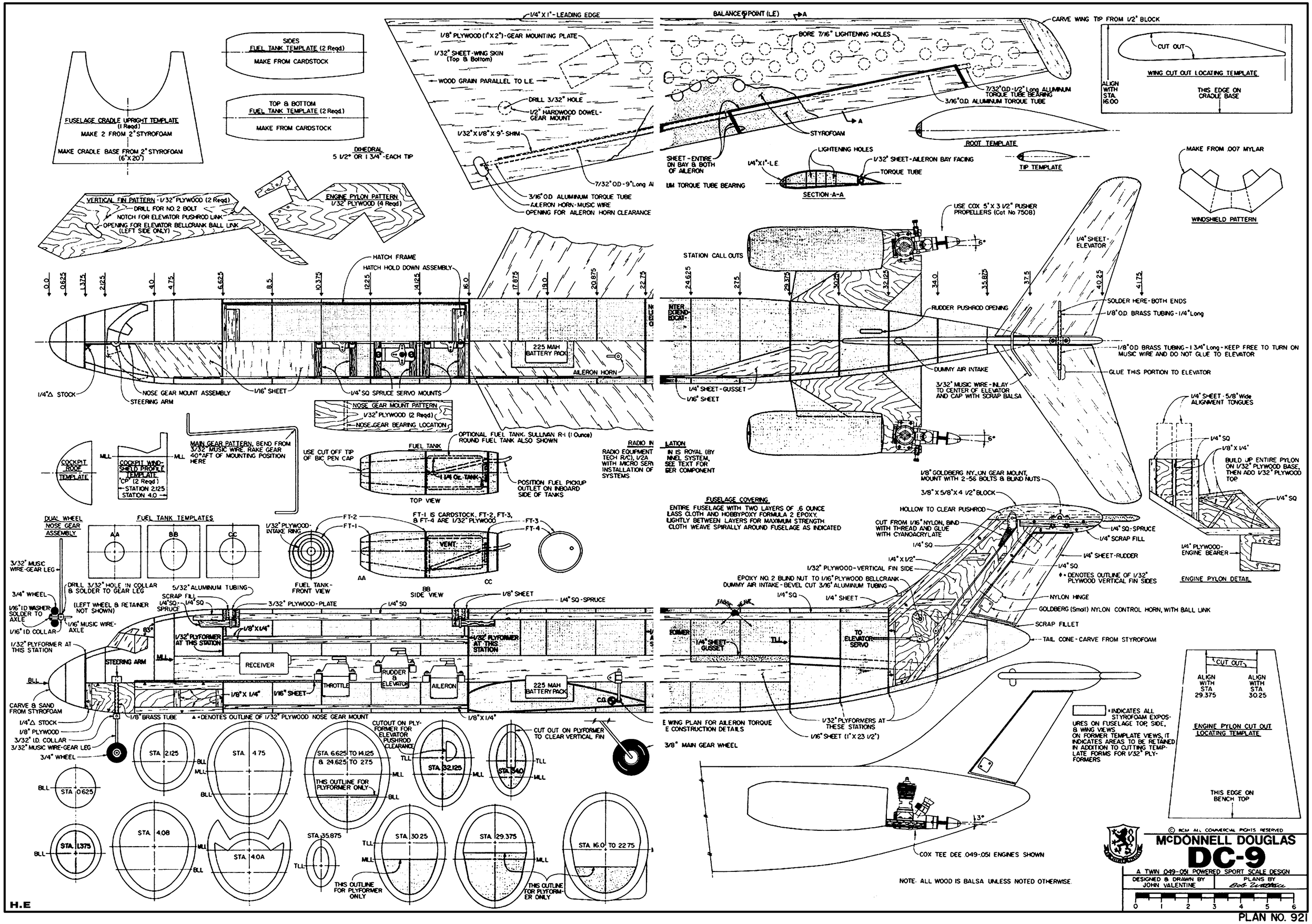
FUSELAGE CRADLE UPRIGHT TEMPLATE (1 Reqd)
MAKE 2 FROM 2" STYROFOAM
MAKE CRADLE BASE FROM 2" STYROFOAM (6"X20")
SIDES FUEL TANK TEMPLATE (2 Reqd)
MAKE FROM CARDSTOCK
TOP & BOTTOM FUEL TANK TEMPLATE (2 Reqd)
MAKE FROM CARDSTOCK
DIHEDRAL
5 1/2" OR 1 3/4" - EACH TIP
1/4" X 1" - LEADING EDGE
1/8" PLYWOOD (1" X 2") - GEAR MOUNTING PLATE
1/32" SHEET - WING SKIN (Top & Bottom)
WOOD GRAIN PARALLEL TO L.E.
DRILL 3/32" HOLE
1/2" HARDWOOD DOWEL - GEAR MOUNT
1/32" X 1/8" X 9" - SHIM
7/32" O.D. - 9" Long Al
3/16" O.D. ALUMINUM TORQUE TUBE
AILERON HORN - MUSIC WIRE
OPENING FOR AILERON HORN CLEARANCE
BALANCE POINT (L.E.)
BORE 7/16" LIGHTENING HOLES
CARVE WING TIP FROM 1/2" BLOCK
7/32" O.D. - 1/2" Long ALUMINUM TORQUE TUBE BEARING
3/16" O.D. ALUMINUM TORQUE TUBE
STYROFOAM
SHEET - ENTIRE ON BAY & BOTH OF AILERON
LIGHTENING HOLES
1/32" SHEET - AILERON BAY FACING
1/4" X 1" - L.E.
TORQUE TUBE
UM TORQUE TUBE BEARING
SECTION - A - A
CUT OUT
WING CUT OUT LOCATING TEMPLATE
ALIGN WITH STA. 16.00
THIS EDGE ON CRADLE BASE
ROOT TEMPLATE
TIP TEMPLATE
MAKE FROM .007 MYLAR
WINDSHIELD PATTERN
VERTICAL FIN PATTERN - 1/32" PLYWOOD (2 Reqd)
DRILL FOR NO. 2 BOLT
NOTCH FOR ELEVATOR PUSHROD LINK
OPENING FOR ELEVATOR BELLCRANK BALL LINK (LEFT SIDE ONLY)
ENGINE PYLON PATTERN 1/32" PLYWOOD (4 Reqd)
HATCH FRAME
HATCH HOLD DOWN ASSEMBLY
0.0 0.625 1.375 2.125 4.0 4.75 6.625 8.5 10.375 12.25 14.125 16.0 17.875 19.0 20.875 22.75
225 MAH BATTERY PACK
AILERON HORN
1/4" △ STOCK
NOSE GEAR MOUNT ASSEMBLY
STEERING ARM
1/16" SHEET
1/4" SQ SPRUCE SERVO MOUNTS
NOSE GEAR MOUNT PATTERN
1/32" PLYWOOD (2 Reqd)
NOSE GEAR BEARING LOCATION
MAIN GEAR PATTERN, BEND FROM 3/32" MUSIC WIRE. RAKE GEAR 40° AFT OF MOUNTING POSITION HERE
COCKPIT ROOF TEMPLATE
COCKPIT WINDSHIELD PROFILE TEMPLATE "CP" (2 Reqd)
STATION 2.125
STATION 4.0
MLL
USE CUT OFF TIP OF BIC PEN CAP
FUEL TANK
OPTIONAL FUEL TANK, SULLIVAN R-1 (1 Ounce) ROUND FUEL TANK ALSO SHOWN
1 1/4 Oz. TANK
POSITION FUEL PICKUP OUTLET ON INBOARD SIDE OF TANKS
TOP VIEW
RADIO INSTALLATION
IN IS ROYAL (BY INNEL SYSTEM, SEE TEXT FOR GER COMPONENT
DUAL WHEEL NOSE GEAR ASSEMBLY
FUEL TANK TEMPLATES
AA BB CC
1/32" PLYWOOD - INTAKE RING
FT-2 FT-1
FT-1 IS CARDSTOCK, FT-2, FT-3, & FT-4 ARE 1/32" PLYWOOD
VENT
FT-3 FT-4
FUEL TANK - FRONT VIEW
SIDE VIEW
3/32" MUSIC WIRE - GEAR LEG
3/4" WHEEL
1/16" I.D. WASHER SOLDER TO AXLE
1/16" I.D. COLLAR
DRILL 3/32" HOLE IN COLLAR & SOLDER TO GEAR LEG
5/32" ALUMINUM TUBING
SCRAP FILL
1/4" SQ - SPRUCE
(LEFT WHEEL & RETAINER NOT SHOWN)
1/16" MUSIC WIRE - AXLE
3/32" PLYWOOD - PLATE
1/4" SQ
1/8" SHEET
1/4" SQ - SPRUCE
1/8" X 1/4"
1/32" PLYFORMER AT THIS STATION
1/32" PLYFORMER AT THIS STATION
1/32" PLYFORMER AT THIS STATION
STEERING ARM
RECEIVER
THROTTLE
RUDDER & ELEVATOR
AILERON
225 MAH BATTERY PACK
C.G.
BLL
CARVE & SAND FROM STYROFOAM
1/4" △ STOCK
1/8" PLYWOOD
3/32" I.D. COLLAR
3/32" MUSIC WIRE - GEAR LEG
3/4" WHEEL
1/8" BRASS TUBE
▲ - DENOTES OUTLINE OF 1/32" PLYWOOD NOSE GEAR MOUNT
CUTOUT ON PLYFORMER FOR ELEVATOR PUSHROD CLEARANCE
CUT OUT ON PLYFORMER TO CLEAR VERTICAL FIN
STA. 0.625
STA. 1.375
STA. 2.125
STA. 4.08
STA. 4.0A
STA. 4.75
STA. 6.625 TO 14.125 & 24.625 TO 27.5
THIS OUTLINE FOR PLYFORMER ONLY
STA. 32.125
STA. 34.0
STA. 35.875
STA. 30.25
STA. 29.375
STA. 16.0 TO 22.75
THIS OUTLINE FOR PLYFORMER ONLY
THIS OUTLINE FOR PLYFORMER ONLY
USE COX 5" X 3 1/2" PUSHER PROPELLERS (Cat No 7508)
STATION CALL OUTS
24.625 27.5 29.375 30.25 32.125 34.0 35.875 37.5 40.25 41.75
INTER EXTENDED BOAT
RUDDER PUSHROD OPENING
1/4" SHEET - ELEVATOR
SOLDER HERE - BOTH ENDS
1/8" O.D. BRASS TUBING - 1/4" Long
1/8" O.D. BRASS TUBING - 1 3/4" Long - KEEP FREE TO TURN ON MUSIC WIRE AND DO NOT GLUE TO ELEVATOR
GLUE THIS PORTION TO ELEVATOR
DUMMY AIR INTAKE
3/32" MUSIC WIRE - INLAY TO CENTER OF ELEVATOR AND CAP WITH SCRAP BALSA
1/4" SHEET - GUSSET
1/16" SHEET
1/4" SHEET - 5/8" Wide ALIGNMENT TONGUES
1/4" SQ
1/8" X 1/4"
BUILD UP ENTIRE PYLON ON 1/32" PLYWOOD BASE, THEN ADD 1/32" PLYWOOD TOP
1/4" SQ
1/4" PLYWOOD - ENGINE BEARER
ENGINE PYLON DETAIL
1/8" GOLDBERG NYLON GEAR MOUNT, MOUNT WITH 2-56 BOLTS & BLIND NUTS
3/8" X 5/8" X 4 1/2" BLOCK
HOLLOW TO CLEAR PUSHROD
CUT FROM 1/16" NYLON, BIND WITH THREAD AND GLUE WITH CYANOACRYLATE
1/4" SQ - SPRUCE
1/4" SCRAP FILL
1/4" SQ
1/4" X 1/2"
1/4" SHEET - RUDDER
1/32" PLYWOOD - VERTICAL FIN SIDE
1/4" SQ
♦ - DENOTES OUTLINE OF 1/32" PLYWOOD VERTICAL FIN SIDES
EPOXY NO. 2 BLIND NUT TO 1/16" PLYWOOD BELLCRANK
DUMMY AIR INTAKE - BEVEL CUT 3/16" ALUMINUM TUBING
1/4" SQ
1/4" SHEET
NYLON HINGE
GOLDBERG (Small) NYLON CONTROL HORN, WITH BALL LINK
SCRAP FILLET
TAIL CONE - CARVE FROM STYROFOAM
FABRIC LINE
BOMER
1/4" SHEET - GUSSET
TLL
TO ELEVATOR SERVO
1/32" PLYFORMERS AT THESE STATIONS
1/16" SHEET (1" X 23 1/2")
E WING PLAN FOR AILERON TORQUE
E CONSTRUCTION DETAILS
3/8" MAIN GEAR WHEEL
FUSELAGE COVERING
ENTIRE FUSELAGE WITH TWO LAYERS OF .6 OUNCE LASS CLOTH AND HOBBYPOXY FORMULA 2 EPOXY. LIGHTLY BETWEEN LAYERS FOR MAXIMUM STRENGTH. CLOTH WEAVE SPIRALLY AROUND FUSELAGE AS INDICATED
▭ - INDICATES ALL STYROFOAM EXPOSURES ON FUSELAGE TOP, SIDE, & WING VIEWS. ON FORMER TEMPLATE VIEWS, IT INDICATES AREAS TO BE RETAINED IN ADDITION TO CUTTING TEMPLATE FORMS FOR 1/32" PLYFORMERS.
CUT OUT
ALIGN WITH STA. 29.375
ALIGN WITH STA. 30.25
ENGINE PYLON CUT OUT LOCATING TEMPLATE
THIS EDGE ON BENCH TOP
3°
COX TEE DEE .049-.051 ENGINES SHOWN
NOTE: ALL WOOD IS BALSA UNLESS NOTED OTHERWISE.
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McDONNELL DOUGLAS
DC-9
A TWIN .049-.051 POWERED SPORT SCALE DESIGN
DESIGNED & DRAWN BY JOHN VALENTINE
PLANS BY Bob Wadell
0 1 2 3 4 5 6
H.E
PLAN NO. 921