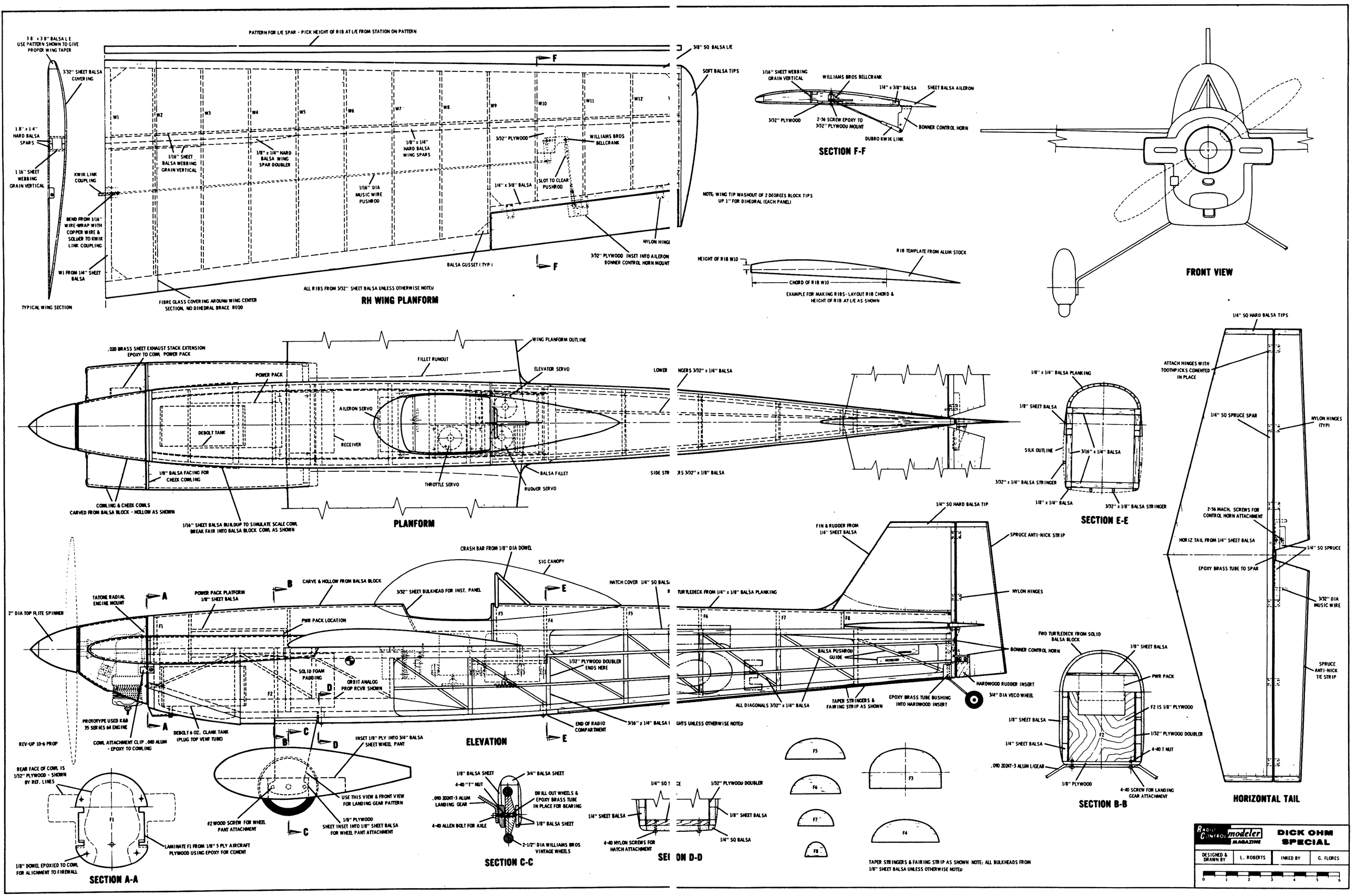
PATTERN FOR L/E SPAR - PICK HEIGHT OF RIB AT L/E FROM STATION ON PATTERN
3/8" x 3/8" BALSA L E USE PATTERN SHOWN TO GIVE PROPER WING TAPER
3/32" SHEET BALSA COVERING
1/8" x 1/4" HARD BALSA SPARS
1/16" SHEET WEBBING GRAIN VERTICAL
KWIK LINK COUPLING
BEND FROM 1/16" WIRE-WRAP WITH COPPER WIRE & SOLDER TO KWIK LINK COUPLING
W1 FROM 1/4" SHEET BALSA
TYPICAL WING SECTION
W1
W2
W3
W4
W5
W6
W7
W8
W9
W10
W11
W12
1/16" SHEET BALSA WEBBING GRAIN VERTICAL
1/8" x 1/4" HARD BALSA WING SPAR DOUBLER
1/8" x 1/4" HARD BALSA WING SPARS
1/16" DIA MUSIC WIRE PUSHROD
3/32" PLYWOOD
WILLIAMS BROS BELLCRANK
SLOT TO CLEAR PUSHROD
1/4" x 3/8" BALSA
NYLON HINGE
3/32" PLYWOOD INSET INTO AILERON BONNER CONTROL HORN MOUNT
BALSA GUSSET (TYP)
FIBRE GLASS COVERING AROUND WING CENTER SECTION. NO DIHEDRAL BRACE REQD
ALL RIBS FROM 3/32" SHEET BALSA UNLESS OTHERWISE NOTED
RH WING PLANFORM
3/8" SQ BALSA L/E
SOFT BALSA TIPS
NOTE: WING TIP WASHOUT OF 2 DEGREES BLOCK TIPS UP 1" FOR DIHEDRAL (EACH PANEL)
1/16" SHEET WEBBING GRAIN VERTICAL
WILLIAMS BROS BELLCRANK
1/4" x 3/8" BALSA
SHEET BALSA AILERON
3/32" PLYWOOD
2-56 SCREW EPOXY TO 3/32" PLYWOOD MOUNT
BONNER CONTROL HORN
DUBRO KWIK LINK
SECTION F-F
HEIGHT OF RIB W10
RIB TEMPLATE FROM ALUM STOCK
CHORD OF RIB W10
EXAMPLE FOR MAKING RIBS - LAYOUT RIB CHORD & HEIGHT OF RIB AT L/E AS SHOWN
FRONT VIEW
.020 BRASS SHEET EXHAUST STACK EXTENSION EPOXY TO COWL POWER PACK
POWER PACK
FILLET RUNOUT
WING PLANFORM OUTLINE
ELEVATOR SERVO
AILERON SERVO
DEBOLT TANK
RECEIVER
THROTTLE SERVO
BALSA FILLET
RUDDER SERVO
1/8" BALSA FACING FOR CHEEK COWLING
COWLING & CHEEK COWLS CARVED FROM BALSA BLOCK - HOLLOW AS SHOWN
1/16" SHEET BALSA BUILDUP TO SIMULATE SCALE COWL BREAK FAIR INTO BALSA BLOCK COWL AS SHOWN
PLANFORM
LOWER
NGERS 3/32" x 1/4" BALSA
SIDE STR
RS 3/32" x 1/8" BALSA
1/8" x 1/4" BALSA PLANKING
1/8" SHEET BALSA
SILK OUTLINE
3/16" x 1/4" BALSA
3/32" x 1/4" BALSA STRINGER
1/8" x 1/4" BALSA
3/32" x 1/8" BALSA STRINGER
SECTION E-E
1/4" SQ HARD BALSA TIPS
ATTACH HINGES WITH TOOTHPICKS CEMENTED IN PLACE
1/4" SQ SPRUCE SPAR
NYLON HINGES (TYP)
2-56 MACH. SCREWS FOR CONTROL HORN ATTACHMENT
HORIZ TAIL FROM 1/4" SHEET BALSA
1/4" SQ SPRUCE
EPOXY BRASS TUBE TO SPAR
3/32" DIA MUSIC WIRE
SPRUCE ANTI-NICK T/E STRIP
HORIZONTAL TAIL
CRASH BAR FROM 1/8" DIA DOWEL
SIG CANOPY
TATONE RADIAL ENGINE MOUNT
POWER PACK PLATFORM 1/8" SHEET BALSA
CARVE & HOLLOW FROM BALSA BLOCK
3/32" SHEET BULKHEAD FOR INST. PANEL
HATCH COVER 1/4" SQ BALSA
2" DIA TOP FLITE SPINNER
PWR PACK LOCATION
SOLID FOAM PADDING
ORBIT ANALOG PROP RCVR SHOWN
1/32" PLYWOOD DOUBLER ENDS HERE
PROTOTYPE USED K&B 35 SERIES 64 ENGINE
DEBOLT 6 OZ. CLARK TANK (PLUG TOP VENT TUBE)
COWL ATTACHMENT CLIP .040 ALUM - EPOXY TO COWLING
REV-UP 10-6 PROP
END OF RADIO COMPARTMENT
3/16" x 1/4" BALSA
GHTS UNLESS OTHERWISE NOTED
ELEVATION
TURTLEDECK FROM 1/4" x 1/8" BALSA PLANKING
FIN & RUDDER FROM 1/4" SHEET BALSA
1/4" SQ HARD BALSA TIP
SPRUCE ANTI-NICK STRIP
NYLON HINGES
BALSA PUSHROD GUIDE
BONNER CONTROL HORN
HARDWOOD RUDDER INSERT
3/4" DIA VECO WHEEL
EPOXY BRASS TUBE BUSHING INTO HARDWOOD INSERT
TAPER STRINGERS & FAIRING STRIP AS SHOWN
ALL DIAGONALS 3/32" x 1/4" BALSA
FWD TURTLEDECK FROM SOLID BALSA BLOCK
1/8" SHEET BALSA
PWR PACK
F2 IS 1/8" PLYWOOD
1/32" PLYWOOD DOUBLER
4-40 T NUT
1/4" SHEET BALSA
.090 2024T-3 ALUM L/GEAR
1/8" PLYWOOD
4-40 SCREW FOR LANDING GEAR ATTACHMENT
SECTION B-B
REAR FACE OF COWL IS 1/32" PLYWOOD - SHOWN BY REF. LINES
LAMINATE F1 FROM 1/8" 5 PLY AIRCRAFT PLYWOOD USING EPOXY FOR CEMENT
1/8" DOWEL EPOXIED TO COWL FOR ALIGNMENT TO FIREWALL
SECTION A-A
INSET 1/8" PLY INTO 3/4" BALSA SHEET WHEEL PANT
USE THIS VIEW & FRONT VIEW FOR LANDING GEAR PATTERN
#2 WOOD SCREW FOR WHEEL PANT ATTACHMENT
1/8" PLYWOOD SHEET INSET INTO 1/8" SHEET BALSA FOR WHEEL PANT ATTACHMENT
1/8" BALSA SHEET
3/4" BALSA SHEET
4-40 "T" NUT
.090 2024T-3 ALUM LANDING GEAR
DRILL OUT WHEELS & EPOXY BRASS TUBE IN PLACE FOR BEARING
4-40 ALLEN BOLT FOR AXLE
1/8" BALSA SHEET
2-1/2" DIA WILLIAMS BROS VINTAGE WHEELS
SECTION C-C
1/4" SQ
1/32" PLYWOOD DOUBLER
1/4" SHEET BALSA
1/8" SHEET BALSA
1/4" SQ BALSA
4-40 NYLON SCREWS FOR HATCH ATTACHMENT
ON D-D
F5
F6
F7
F8
F3
F4
TAPER STRINGERS & FAIRING STRIP AS SHOWN NOTE: ALL BULKHEADS FROM 1/8" SHEET BALSA UNLESS OTHERWISE NOTED
RADIO CONTROL modeler MAGAZINE
DICK OHM SPECIAL
DESIGNED & DRAWN BY
L. ROBERTS
INKED BY
G. FLORES
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