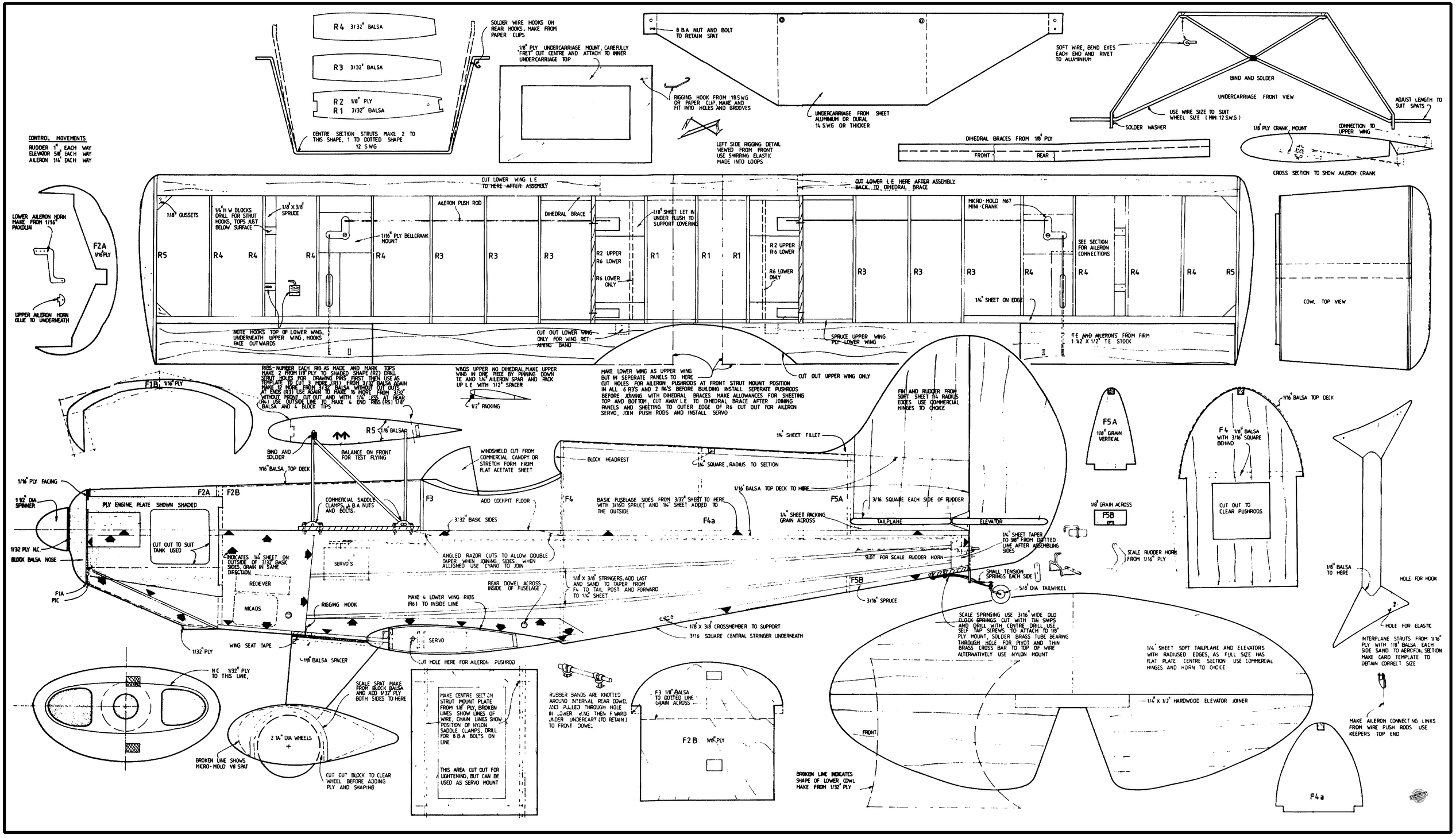
R4 3/32" BALSA
R3 3/32" BALSA
R2 1/8" PLY
R1 3/32" BALSA
CENTRE SECTION STRUTS MAKE 2 TO THIS SHAPE. 1 TO DOTTED SHAPE 12 S.W.G
SOLDER WIRE HOOKS ON REAR HOOKS. MAKE FROM PAPER CLIPS
1/8" PLY UNDERCARRIAGE MOUNT, CAREFULLY "FRET" OUT CENTRE AND ATTACH TO INNER UNDERCARRIAGE TOP
8 B.A NUT AND BOLT TO RETAIN SPAT
RIGGING HOOK FROM 18 S.W.G OR PAPER CLIP. MAKE AND FIT INTO HOLES AND GROOVES
LEFT SIDE RIGGING DETAIL VIEWED FROM FRONT USE SHIRRING ELASTIC MADE INTO LOOPS
UNDERCARRIAGE FROM SHEET ALUMINIUM OR DURAL 14 S.W.G OR THICKER
SOFT WIRE, BEND EYES EACH END AND RIVET TO ALUMINIUM
BIND AND SOLDER
UNDERCARRIAGE FRONT VIEW
USE WIRE SIZE TO SUIT WHEEL SIZE (MIN 12 S.W.G)
SOLDER WASHER
ADJUST LENGTH TO SUIT SPATS
CONTROL MOVEMENTS
RUDDER 1" EACH WAY
ELEVATOR 5/8" EACH WAY
AILERON 1/4" EACH WAY
DIHEDRAL BRACES FROM 1/8" PLY
FRONT
REAR
1/8" PLY CRANK MOUNT
CONNECTION TO UPPER WING
CROSS SECTION TO SHOW AILERON CRANK
LOWER AILERON HORN MAKE FROM 1/16" PAXOLIN
F2A 1/16" PLY
UPPER AILERON HORN GLUE TO UNDERNEATH
CUT LOWER WING L.E TO HERE AFTER ASSEMBLY
CUT LOWER L.E HERE AFTER ASSEMBLY BACK TO DIHEDRAL BRACE
1/8" GUSSETS
1/4" H.W BLOCKS DRILL FOR STRUT HOOKS, TOPS JUST BELOW SURFACE
1/8" X 3/8" SPRUCE
1/16" PLY BELLCRANK MOUNT
AILERON PUSH ROD
DIHEDRAL BRACE
1/8" SHEET LET IN UNDER FLUSH TO SUPPORT COVERING
MICRO-MOLD N67 MINI-CRANK
SEE SECTION FOR AILERON CONNECTIONS
R5
R4
R3
R2 UPPER R6 LOWER
R6 LOWER ONLY
R1
1/4" SHEET ON EDGE
COWL TOP VIEW
NOTE HOOKS TOP OF LOWER WING, UNDERNEATH UPPER WING, HOOKS FACE OUTWARDS
CUT OUT LOWER WING ONLY FOR WING RETAINING BAND
SPRUCE UPPER WING PLY LOWER WING
T.E AND AILERONS FROM FIRM 1 1/2 X 1/2" T.E STOCK
RIBS - NUMBER EACH RIB AS MADE AND MARK TOPS MAKE 2 FROM 1/8" PLY TO SHADED SHAPE (R2) DRILL STRUT HOLES FOR DRAWING PINS FIRST THEN USE AS TEMPLATE TO CUT 3 MORE (R1) FROM 3/32" BALSA AGAIN MAKE 12 MORE FROM 3/32" BALSA WITHOUT CUT OUTS AT ENDS (R3) USE AGAIN TO MAKE 16 MORE FROM 3/32" WITHOUT FRONT CUT OUT AND WITH 1/4" LESS AT REAR (R4) USE OUTSIDE LINE TO MAKE 4 END RIBS (R5) 1/8" BALSA AND 4 BLOCK TIPS
WINGS UPPER NO DIHEDRAL MAKE UPPER WING IN ONE PIECE BY PINNING DOWN T.E AND 1/4" AILERON SPAR AND PACK UP L.E WITH 1/12" SPACER
1/12" PACKING
MAKE LOWER WING AS UPPER WING BUT IN SEPERATE PANELS TO HERE CUT HOLES FOR AILERON PUSHRODS AT FRONT STRUT MOUNT POSITION IN ALL 6 R3'S AND 2 R4'S BEFORE BUILDING INSTALL SEPERATE PUSHRODS BEFORE JOINING WITH DIHEDRAL BRACES MAKE ALLOWANCES FOR SHEETING TOP AND BOTTOM, CUT AWAY L.E TO DIHEDRAL BRACE AFTER JOINING PANELS AND SHEETING TO OUTER EDGE OF R6 CUT OUT FOR AILERON SERVO, JOIN PUSH RODS AND INSTALL SERVO
CUT OUT UPPER WING ONLY
FIN AND RUDDER FROM SOFT SHEET 1/4 RADIUS EDGES USE COMMERCIAL HINGES TO CHOICE
F5A 1/8" GRAIN VERTICAL
F4 1/8" BALSA WITH 3/16" SQUARE BEHIND
1/16" BALSA TOP DECK
CUT OUT TO CLEAR PUSHRODS
F1B 1/16" PLY
R5 1/8" BALSA
BIND AND SOLDER
BALANCE ON FRONT FOR TEST FLYING
WINDSHIELD CUT FROM COMMERCIAL CANOPY OR STRETCH FORM FROM FLAT ACETATE SHEET
BLOCK HEADREST
1/4" SQUARE, RADIUS TO SECTION
1/16" PLY FACING
1 1/2" DIA SPINNER
1/16" BALSA TOP DECK
F2A
F2B
PLY ENGINE PLATE SHOWN SHADED
COMMERCIAL SADDLE CLAMPS, 4 B.A NUTS AND BOLTS.
F3
ADD COCKPIT FLOOR
F4
BASIC FUSELAGE SIDES FROM 3/32" SHEET TO HERE WITH 3/16" SPRUCE AND 1/4" SHEET ADDED TO THE OUTSIDE
1/16" BALSA TOP DECK TO HERE
F5A
3/16 SQUARE EACH SIDE OF RUDDER
1/8" GRAIN ACROSS
F5B
1/32 PLY N.C.
BLOCK BALSA NOSE
CUT OUT TO SUIT TANK USED
3/32" BASIC SIDES
F4a
1/4" SHEET PACKING GRAIN ACROSS
TAILPLANE
ELEVATOR
1/4" SHEET TAPER TO 3/8" FROM DOTTED LINE AFTER ASSEMBLING SIDES
SCALE RUDDER HORN FROM 1/16" PLY
1/8" BALSA TO HERE
HOLE FOR HOOK
INDICATES 1/4" SHEET ON OUTSIDE OF 3/32" BASIC SIDES, GRAIN IN SAME DIRECTION
SERVO'S
ANGLED RAZOR CUTS TO ALLOW DOUBLE TAPER WHEN JOINING SIDES WHEN ALLIGNED USE CYANO TO JOIN
SLOT FOR SCALE RUDDER HORN
SMALL TENSION SPRINGS EACH SIDE
5/8" DIA TAILWHEEL
F1A PIC
RECIEVER
NICADS
RIGGING HOOK
REAR DOWEL ACROSS INSIDE OF FUSELAGE
1/8" X 3/8" STRINGERS. ADD LAST AND SAND TO TAPER FROM F4 TO TAIL POST AND FORWARD TO 1/4" SHEET
MAKE 4 LOWER WING RIBS (R6) TO INSIDE LINE
F5B
3/16" SPRUCE
1/8" X 3/8" CROSSMEMBER TO SUPPORT
3/16 SQUARE CENTRAL STRINGER UNDERNEATH
SCALE SPRINGING USE 3/16" WIDE OLD CLOCK SPRINGS CUT WITH TIN SNIPS AND DRILL WITH CENTRE DRILL USE SELF TAP SCREWS TO ATTACH TO 1/8" PLY MOUNT, SOLDER BRASS TUBE BEARING THROUGH HOLE FOR PIVOT AND THIN BRASS CROSS BAR TO TOP OF WIRE ALTERNATIVELY USE NYLON MOUNT
HOLE FOR ELASTIC
INTERPLANE STRUTS FROM 1/16" PLY WITH 1/8" BALSA EACH SIDE SAND TO AEROFOIL SECTION MAKE CARD TEMPLATE TO OBTAIN CORRECT SIZE
1/32" PLY
WING SEAT TAPE
1/8" BALSA SPACER
SERVO
CUT HOLE HERE FOR AILERON PUSHROD
N.C 1/32" PLY TO THIS LINE,
SCALE SPAT MAKE FROM BLOCK BALSA AND ADD 1/32" PLY BOTH SIDES TO HERE
MAKE CENTRE SECTION STRUT MOUNT PLATE FROM 1/8" PLY, BROKEN LINES SHOW LINES OF WIRE, CHAIN LINES SHOW POSITION OF NYLON SADDLE CLAMPS, DRILL FOR 8 B.A BOLTS ON LINE
THIS AREA CUT OUT FOR LIGHTENING, BUT CAN BE USED AS SERVO MOUNT
RUBBER BANDS ARE KNOTTED AROUND INTERNAL REAR DOWEL AND PULLED THROUGH HOLE IN LOWER WING THEN FWARD UNDER UNDERCART (TO RETAIN) TO FRONT DOWEL
F3 1/8" BALSA TO DOTTED LINE GRAIN ACROSS
F2B 1/8" PLY
1/4" SHEET SOFT TAILPLANE AND ELEVATORS WITH RADIUSED EDGES, AS FULL SIZE HAS FLAT PLATE CENTRE SECTION USE COMMERCIAL HINGES AND HORN TO CHOICE
1/4" X 1/2" HARDWOOD ELEVATOR JOINER
2 1/4" DIA WHEELS
BROKEN LINE SHOWS MICRO-MOLD V8 SPAT
CUT OUT BLOCK TO CLEAR WHEEL BEFORE ADDING PLY AND SHAPING
FRONT
BROKEN LINE INDICATES SHAPE OF LOWER COWL MAKE FROM 1/32" PLY
MAKE AILERON CONNECTING LINKS FROM WIRE PUSH RODS USE KEEPERS TOP END
F4a