A 37" WINGSPAN, POWERED FREE FLIGHT SCALE MODEL

HAWKER HIND

Designed by
D. MARSH
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The Aeromodeller Plans Service
38 CLARENDON RD. WATFORD HERTS

6/-

ALL WOODS UNLESS OTHERWISE STATED ARE BALSA

DIHEDRAL
1"
BIND WITH FUSE WIRE AND SOLDER
INTERPLANE STRUTS 18 SWG WIRE FAIRED WITH 2 LAYERS OF 1/16" x 5/16" STREAMLINE SECTION MAKE ONE OF R.H. AND ONE OF L.H.
SOLDER PRESS STUDS
POSITION OF RIGGING WIRES (OPTIONAL)
RECESS FOR GUN TROUGH
DETAILS FROM SCRAP BLOCK
NOTE: PLY SUPPORT SHOULD BE FLUSH WITH BOTTOM OF WING

FRONT SPAR 1/16" SHEET TAPER FROM 3/8" AT 'A' TO 1/4" AT 'B' TO 1/8" AT 'C'
MAKETIPS SAME WAY AS FOR WINGS
REAR SPAR 1/8" SHEET TAPER FROM 7/16" AT 'D' TO 5/16" AT 'E' TO 1/8" AT 'F'
'A' 'B' 'C' 'D' 'E' 'F'
ELEVATOR HINGE LINE
1/2" x 1/8" T.E.
3/16" SQ. L.E.
1-1/2" DIHEDRAL
3/8" x 1/8" SCRAP
1/16" SQ. BENT RIBS

F1 F1A F2

C'SK
16 SWG BRASS TUBE
6 LAMS OF 1/8" SHEET WITH 1 LAMINATION OF 1/8" PLY IN CENTRE
SOLDERED CUP WASHER
3/8" TIN WASHER SOLDERED TO AXLE
AXLE BOUND TO VEE STRUT WITH 1/8" FLAT RUBBER
16 SWG AXLE
TRACK 6"

HANDLEY PAGE SLOT CARVE SLAT FROM 1/8" x 1/3" BALSA & CEMENT IN PLACE AFTER COVERING
LEVER COVERS 3/32" BALSA 6 OFF CEMENT IN PLACE AFTER COVERING

- WING RIBS -
W1 - 5 OFF - 1/16" SHEET
W2 - 2 OFF - 1/8" SHEET
32 OFF - 1/16" SHEET
W3 - 2 OFF - 1/16" SHEET
W4 - 2 OFF - 1/16" SHEET
W5 - 28 OFF - 1/16" SHEET
W6 - 4 OFF - 1/16" SHEET
W7 - 2 OFF - 1/16" SHEET

PRESS STUD
NOTE STEP IN WIRE
1/8" SHEET
BIND AND SOLDER
CUT OUT COCKPITS AFTER SHEETING
RIGGING (OPTIONAL)
F1 F1A F2 F3 F3A F4 F5 F6 F7 F8 F9 F10 F11 F12 F13 F14 F15 F16
DUMMY EXHAUSTS
LAMINATE SPINNER FROM 1/4" SHEET
MILLS 0.75 SHOWN
GUN TROUGH FROM F2 - F7 RECESS & LINE WITH THICK PAPER
F3A FITTED AFTER NOSE IS PLANKED
LOUVRES
CABANE STRUT BEARERS
OIL COOLER MADE FROM CARD & PINS
AIR INTAKES
CEMENT TO FUSELAGE & CHAMFER TO SUIT DIHEDRAL
3/32" SHEET
UC2
W6
1/16" SHEET RADIATOR GRILL IS REPRESENTED BY WHITE COTTON BOUND ROUND BLACK CARD
RECESS FOR U/CART
WING BOX MADE FROM HARD 1/16" SHEET & 1/8"SQ. BIND WITH SCOTCH TAPE
RECESS STRINGERS
1/8" x 1/4" CRUTCH
ALL STRINGERS 3/32" x 1/8"
FILL IN BETWEEN STRINGERS FROM F7 TO NOSE WITH 3/32" SHEET DECK SHEETING GOES BACK TO F11 BOTTOM SHEET GOES BACK TO F9
- FORMERS - F3 & F3A - 1/8" PLY REST - 1/8" BALSA

CABANE STRUT BEARERS 3/8" x 1/8" HARD - 2 OFF
18 SWG WIRE
LEADING & TRAILING EDGES LAMINATED FROM 1/8" x 1/32"
1/4" x 1/16" TAPERING TO 3/16" x 1/16"
1/8" SHEET
1/8" SHEET SPAR
ALL RIBS 1/16" SQ.
3/8" SHEET
18 SWG WIRE
3/32" PACKING
3/32" SHEET
1/16" SHEET
1/8" DOWEL
18 SWG BRASS TUBE
1/4" x 1/8"
1/8" SHEET
20 SWG WIRE
3/4" DIA. WHEEL
20 SWG HOOK BIND TO SPAR
18 SWG WIRE ON FIN PLUGS INTO BRASS TUBE BOUND TO STERNPOST. RUBBER BANDS PASS FROM FRONT DOWEL OVER 20 SWG HOOK ON FIN TO REAR DOWEL
WINDSHIELD CELLULOID 2 REQD

1/4" THICK HARDWOOD PLUG
6BA NUTS AND BOLTS
18 SWG HOOK
FRONT FLANGE
6BA TAP
DEVELOPMENT OF BEARER
6BA CLEAR
16SWG HOOK BIND TO CROSS MEMBER
1/8" SHEET GLUE TO 1/8" PLY SUPPORT
DO NOT CEMENT F3A IN PLACE
F3
CUT OUT TO FIT PLUG ON F3A
F4 F5 F6 F7 F9
CUT TO DASHED LINE FOR F8

AFTER SHEETING, NOSE IS CUT OFF FWD OF F3 ENGINE BEARERS ARE FIXED PERMANENTLY TO F3A BY 4 6BA NUTS AND BOLTS. FRONT FLANGE OF BEARER IS SCREWED TO F1 & F1A BY TWO 6BA C'SK BOLTS. RUBBER BANDS PASS FROM 18 SWG HOOK ON BEARER THRU' SLOTS IN F3A TO 16 SWG HOOKS FWD OF F4
CABANE STRUT BEARERS
C.G.
DUMMY EXHAUSTS
1/8" SHEET
UC1 1 OFF
16 SWG BRASS TUBE BIND AND CEMENT
SLOT
RECESS PLY FOR WIRE
1/8" PLY WING SUPPORT
UC2 1/4" SHT ONE OFF
16 SWG BRASS TUBE BIND AND CEMENT
1/8" DOWEL
1/16" SHEET
1/8" DOWEL
18SWG BRASS TUBE
STERNPOST
F10 F11 F12 F13

TYPICAL SECTION THRO' TAILPLANE

- BASIC CRUTCH 1/4" x 1/8" HARD -

F14 F15 F16

SCRAP
OLEO FORMERS
COVER WITH 1/32" SHEET
16 SWG
STRUT AND AXLE FAIRINGS MADE FROM TWO LAYERS OF 1/8" x 9/16" BALSA & SANDED TO STREAMLINE SECTION
- CABANE STRUTS - 16 SWG ONE OF EACH SAME FAIRING AS INTERPLANE STRUTS
REAR
FRONT

W1 W2 W3 W4 W5 W6 W7

WING TIPS FROM 1/4" x 1/32" STRIPS. WHEN DRY CUT DOWN THE CENTRE WITH A RAZOR BLADE TO MAKE TWO IDENTICAL TIPS

PRESS STUD SEWN TO SHEET
1/8" SHEET RECESSED APPROX. 5/16" FROM LOWER SURFACE. SEE INSTRUCTIONS
FRONT SPARS 1/8" x 3/16" TOP & BOTTOM
POSITION OF LEVER COVERS
3/16" SQ. LEADING EDGE
1/8" x 3/8" FLUSH WITH BOTTOM SURFACE
1/16" SHETT FLUSH WITH BOTTOM OF RIB
PLY BRACE
BALSA BRACE
PLY BRACE
BALSA BRACE
18 SWG BRASS TUBES SEWN UNDER
W1 W2 W3 W4 W5 W6 W7
3/16" x 3/8"
3/8" SQ. TAPERED TO 3/8" x 1/8"
SCRAP
1/2" x 1/8" TRAILING EDGE
CROSS SECTION THRO' LOWER WING ROOT
CHAMFER TONGUE
MAKE 12 BRACES 6 OFF 1/8" BALSA 6 OFF 1/32" PLY CHAMFER BALSA BRACES TO FIT SWEEPBACK
1/4" SHEET
BRACES
NOTCH IN BOTTOM OF FRONT SPAR ONLY
CROSS SECTION THRO' UPPER WING JOINT
AILERON HINGE LINE
REAR SPAR 1/8" x 3/16"
CROSS SECTION THRO' UPPER WING TIP
CROSS SECTION THRO' LOWER WING TIP
1/16" SHEET FROM 1/8" SHEET TO BOTTOM OF RIB
1/8" SQ. LEADING EDGE
1/8" SQ. TOP & BOTTOM
1/8" HARD BALSA TONGUE
1/4" SHEET
1/8" SHEET FLUSH WITH TOP SURFACE OF WING
1/2" x 1/8" TRAILING EDGE
SEW PRESS STUDS TO SHEET

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