

A 35-1/2" FREE FLIGHT FLYING SCALE MODEL

AVRO AVIAN SPORTS

Designed by
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6/-

The Aeromodeller Plans Service

THE AERODROME, STANBRIDGE, NR LEIGHTON BUZZARD, BEDS

ALL WOODS UNLESS OTHERWISE STATED ARE BALSA

1" DIHEDRAL
AT WING TIP OF
BOTH TOP AND
BOTTOM WINGS

SECTION AT PENDULUM

10BA NUT SOLDERED
TO TUBE

10BA BOLT

16G BRASS TUBE

1/32" TOP DECK

LONGERON
1/8" SQ.

STRINGERS
1/16" SHEET

SIDE
1/16" SHEET

WEIGHT APPROX. 3/8 OZ.
BOUND & CEMENTED

6" TRACK

VIEW LOOKING
FWD. ON UPPER
PORTION OF
ENGINE COWL

ACTUAL LENGTHS OF UNDERCARRIAGE LEGS

THIN TIN CLIPS

6BA NUTS SOLDERED
ABOVE & BELOW CLIP
WITH JUST SUFFICI-
ENT CLEARANCE TO
ENSURE EASY ROTAT-
ION WITHOUT PLY

6BA SCREW SCREWED INTO HARDWOOD

HARDWOOD 3/8" L x 1/4" W x 3/16" DEEP

18G BRASS TUBE PINS PUSHED
THRO' FUSELAGE SIDES PICK UP
THIS TUBE

SCRAP VIEW OF TAILPLANE VARIABLE INCIDENCE MECH

PACKING
STRIPS
1/8" x 1/32"

SPARS
1/8" x 1/4"

1/8" PLY GUSSETS
FLUSH
WITH UNDERSIDE

1/8" SHEET RIB

6BA BOLTS
ATTACHING TOP
CLIP OF VARIABLE
INCIDENCE MECH.

1/16" SHEET RIB

LEADING EDGE
1/8" x 3/16"

TRAILING EDGE
1/2" x 1/8"

NOTE: THESE TUBES
CEMENTED & BOUND
WITH TISSUE TO
ELEVATOR SPAR

HINGE TUBES
ARE 20G ALUM
WITH 20G WIRE
HINGE PIN

NOTE: THESE TUBES
CEMENTED & BOUND
WITH TISSUE TO
TAILPLANE SPAR

CROSS SECTION THRO' TAILPLANE

NOSE RIBS
1/32" SHEET

CUT OUT FOR WING BOXES
(ROOT RIBS ONLY)

1/8" SHEET GUSSET

RIBS A, B & C, 1/32" PLY, 1/8" BALSA & 1/16" BALSA RESPECTIVELY

RIB D - 1/8" SHEET

HOLLOW INTERPLANE STRUTS
BUILT UP FROM 1/16" SHEET
CORE & 1/32" SHEET SIDES

1/2" x 1/8" TRAILING EDGE

RIB E - 1/16" SHEET

16G ALUM TUBES

RIB B

REAR SPAR 1/8" x 1/4"

AILERONS EITHER LIGHTLY CEMENTED
IN POSITION AFTER COVERING OR ATTACHED
WITH ALUM. HINGES AS PER RUDDER

SECTION THRO' TIP

NOTE 1/16" x 1/16" RUBBER PASSES THRO' HOLLOW STRUTS THEN THRO' 16G ALUM TUBES IN WING