A 44" SPAN SEMI-SCALE SPORT MODEL FOR SMALL ENGINES

PUSHY-CAT

DESIGNED BY

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6/-

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38 CLARENDON RD WATFORD HERTS

ALL WOODS ARE BALSA UNLESS OTHERWISE STATED

DATA	
WING SPAN	44"
WING AREA	270 SQ INS
TAIL AREA	87 " "
LENGTH	34½"
WEIGHT	10½ OZ
POWER	5 TO 15 c.c.

MATERIALS REQUIRED	
STRIP BALSA 36" LONG	SHEET BALSA 36" LONG
2 STRIPS OF ⅛" X ¼" MED.	4 SHEETS OF 1/16" X 3" MED.
5 " " ⅛" X ⅛" "	1 " " 1/16" X 3" "
1 " " 3/16" X 3/16" "	MISCELLANEOUS
1 " " ⅛" X ½" " T.E.	9" OF ¼" X ⅜" HARDWOOD
2 " " 3/16" X ¾" " T.E.	16 SWG SPRING 1¼" X 9" OR 20" OF 14 SWG WIRE
BLOCK BALSA	3" OF ⅛" DOWEL
1 BLOCK 1" X 1¾" X 3" SOFT	SMALL PIECE OF 1/16" PLY
1 " 1" X 1¼" X 2" "	SHEET OF CELLULOID
1 " 1½" X 1⅜" X 2" "	

SOFT BLOCK FAIRING CEMENT TO WING CENTRE SECTION

⅛" SHEET PLATFORM

CARVE FROM BLOCK OR LAMINATE FROM ¼" SHEET

CELLULOID WINDSCREEN

IF USING 3" WIDE SHEET FOR SIDES, JOIN AT THESE LINES

PIECE OF ⅛" SHT CEMENTED TO INSIDE OF PORT SIDE SO THAT A SCOOP CAN BE CUT TO AID CHOKING

MILLS 7½ SHOWN

¼" SHEET

COVER WITH 1/16" SHEET TO FAIR FROM F3 TO ⅛" SHEET

⅛" SHEET TOP & BOTTOM

⅛" SHEET FAIRING

SOFT BLOCKS

F1 ⅛" SHEET F2 F3 F4 F5 F6 F7

⅛" SHEET GUSSETS

1/16" PLY FOR MOUNTING U/CART

CUT SIDES TO INNER LINES

USE SMALL COMPARTMENT AS WEIGHT BOX IF NECESSARY

1½" OR 1¾" DIA WHEELS

¼" DOWEL

¼" DOWEL

⅜" x ¼" HARDWOOD BEARERS

WING PLATFORM

⅛" SHEET SIDES

¼ FULL SIZE SKETCH SHOWING SHAPE OF BASIC FUSELAGE SIDE

⅛" SHEET TOP ON CEMENT TO TAILPLANE AFTER COVERING

TAILPLANE PLATFORM ⅛" SHEET

PIN

PIN

¼" SQ

¼" x ¼"

¼" SHEET GUSSETS

¼" SQ. L.E.

¼" x ¼"

⅛" SHEET

ALUMINIUM STRIP CEMENTED TO SHEET

ADD ⅛" x ⅜" EACH SIDE

USE SLIGHT LEFT RUDDER TO GIVE STRAIGHT FLIGHT OR SLIGHT LEFT TURN

ACTUAL SHAPE OF TAILPLANE PLATFORM

BRASS

¾"

1¾"

1"

⅜"

⅜"

⅛" DIA

7"

LEFT-HAND BLADE FOR ROTARY-VALVE MOTORS. FOR PISTON OR CARVE-OVER TYPE BEND AWAY TO NORMAL OR MOULD PLASTIC PROP TO REVERSE PITCH

FRONT VIEW OF TAILPLANE TIP

CENTRE SECTION FOR 2 OFF ⅛" SHEET

POSITION OF SLOT

TRIM TWO RIBS TO THIS LINE

WING RIB 20 OFF 1/16" SHEET

TRIM TWO RIBS TO THIS LINE

TAILPLANE RIB 10 OFF 1/16" SHEET

¼" SQ. L.E.

⅛" SHEET TOP ONLY

⅛" x ⅛" SPAR

1/16" SHEET TIPS

⅛" x ⅛" T.E.

DEVELOPMENT OF U/CART

SWG SPRING

BOLT U/CART IN PLACE

B BE NOT B BOLT THIS WAY

1/16" SHEET WING TIPS

FRONT VIEW OF WING TIP

SLOT FORMED FROM 3 PIECES OF 1/16" SHEET

1/16" x ⅛" TOP ONLY

DIHEDRAL 3" UNDER EACH TIP

⅛" x ⅜" T.E.

WING CENTRE SECTION

SECTION AT BB

BAND & KILLER

WING TO FUSELAGE

ALTERNATIVE U/CART BENT FROM 14 SWG WIRE IF PREFERRED

OUTLINE OF SOFT BLOCK FAIRING

¼" SQ.

¼" SQ. L.E.

WING TIP SLOTS ARE OPTIONAL

⅜" x ¼" SPARS

3/16" SHEET GUSSET

1/16" SHEET TOP ONLY

PACK WITH SCRAP

¼" x ⅛" HARD (STRAIGHT)

3/16" SHEET GUSSET

¼" SQ.

⅛" SHEET

F1 F2 F3 F4 F5 F6 F7 F8 F9

FORMERS F1 TO F5 - 1/8" SHEET F6 TO F8 - 1/16" SHEET.

1MM PLY FACE

⅛" SHEET

BLOCK

PERIPHERY OF ENGINE MOUNT

SHIMS OR BLOCK

SUGGESTED FLYING BOAT CONVERSION (DETACHABLE)

SECTION CLARK Y @ 5°

¼"

3"

15"

3½"

4"

5"

¾"

CONSTRUCT FROM 1/16" SHEET

SCALE ¼ FULL SIZE

FUSELAGE FITS IN THIS SPACE

SPONSON

CROSS SECTION AT 2nd FORMER ACTUAL SIZE

VIEW FROM UNDERSIDE

VIEW FROM TOP SIDE

HOOKS FOR RUBBER ATTACHMENT BANDS

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Full size copies of the 1/5th scale plan can be obtained from the Aeromodeller Plans Service, price 6/- post free.