CHORUS GULL

DESIGNED BY BRIAN PEOKHAM

A SEMI-SCALE VERSION OF THE FAMOUS EDGAR PERKOVAL 'NEW GULL' FOR .40 - .60 2 STROKE OR .61 4 STROKE ENGINES & 4 FUNCTION R/C

CONTROL THROWS:	
AILERONS	1" UP, 3/4" DOWN
ELEVATOR	1 1/2" - 1 3/4" EACH WAY
RUDDER	2" EACH WAY
PROTOTYPE WEIGHT	7 3/4" LBS
BARE AIRFRAME	4LBS

C2 1/4" PLY
TRIM TO CLEAR ENGINE MOUNT ENDS
CUTOUTS IN BALSA NOSE LAMINATIONS
F1 1/4" PLY
SPACE BEARERS TO SUIT ENGINE
TANK NECK
SLOTS FOR BRACKETS
C1 1/8" PLY
F4 1/8" LITEPLY
F2 1/8" LITEPLY
1/8" PLY DOUBLER
F3 1/8" LITEPLY
F5 1/8" LITEPLY
FILLET SHAPE
SOFT BLOCK
FR3
1/16" SHEET SKINS (NO CORE)
FR2
FR1
SOFT BLOCK TOP
SHAPED 1/2" BLOCK TO FORM SEAT FOR FIN FITS OVER TOP BLOCK
1/4" x 7/16" FINPOST
FABRIC COVER RUDDER
1/4" SQ EACH SIDE
1/16" CORE
1/4" SQ
TAILPLANE
1/8" SHEET HALF RIBS
1/8" x 1/2" DOUBLERS
1" SLOT EACH SIDE FOR HORN ACCESS
HORN
1/16" GAP
1/8" x 1/16" EACH SIDE
F6A TO HERE 1/8" LITEPLY
F7 1/8" LITEPLY
F8 1/8" LITEPLY
F6 & F6A CAN BE MADE IN ONE PIECE AND CRACKED ON LINE
F7
F8
1/8" SHEET SIDES
1/32" PLY DOUBLER AT JOINT
JOIN SIDE SHEET
1/4" x 7/16" STERNPOST
1/4" SHEET EACH SIDE
F6 1/8" LITEPLY
1/4" PLY INSERT
14G WIRE SKID
1/8" x 3/8" SPRUCE EACH SIDE
EPOXY INTO PLY
DETAIL OF TAILSKID WIRE
SOLDERED WASHER
MOULDED CANOPY REF. CAN RM356
PAINTED FRAMES
F6A
1/8" SHEET ROLLED UPPER SIDES/TOP
1/32" PLY FILLET BASE, LET INTO SIDE
1/64" PLY FILLET BASE
1/2" SHEET
1/8" PLANKING OR ROLLED SHEET
1/2" x 3/4" BEECH BEARERS
2 1/2" GOLDBERG SPINNER
C2
C1
WOODSCREWS
1/8" PLY PLATES
F1
F2
F3
F4
1/4" SQ
1/8" x 1/2" LONGERONS
JOIN
SECURE LOWER COWL WITH SMALL WOODSCREWS
CG
6-8oz. TANK
NICAD
RECEIVER
1/4" SQ
3 SERVOS HERE
3/8" x 1/4" SPRUCE
1/32" PLY DOUBLERS TO
1/8" PLY PLATE
F5
F6
VACFORMED COWL AVAILABLE, REF. COW RM356
COOLING EXIT
1/8" PLY DOUBLER
SOFT BLOCK FILLETS
1/4" PLY PLATE
BLIND NUTS
3/8" TRIANGULAR
1/64" PLY FILLET BASE
WING DATUM AT FUSELAGE SIDE
WING DATUM AT CENTRE
CUTOUT TO SUIT EXHAUST
LAMINATE COWL FRONT FROM 1/2" SHEET
LITHOPLATE LOWER COWL
SOFT BLOCK FAIRING
NYLON BOLTS
1/32" PLY FILLET BASE
1/4" SHEET BOTTOM

2 1/4" DIHEDRAL AT EACH TIP UNDER MAINSPARS

W11

UPPER 1/8" PLY BRACE

LOWER 1/8" PLY BRACE

3/8" x 1" L.E. TAPERED IN DEPTH

1/8" SHEET WEBS

1/16" SHEETING CUT AWAY FOR CLARITY

FR1

FR2

FR3

1/8" SHEET FIN RIBS RUDDER HALF RIBS ARE TRIANGLES

ROUND-OFF ALL EDGES

2" WIDE SHEET

JOIN HERE

3" WIDE SHEET

TAILPLANE & ELEVATORS FROM 1/4" SHEET

16G BRASS HORN SILVER SOLDERED

1/8" SHEET FALSE L.E.

3/16" SHEET TIPS

W11

1/4" SPRUCE SPARS TOP & BOTTOM

MYLAR HINGES

14G WIRE JOINER

INFILL AT HINGES

W10

BLOCK

1/16" x 3/16" CAPSTRIPS TOP & BOTTOM

W9

1/8" RIBLET

TOP HINGE WITH MYLAR

W8

1/16" PLY PLATE

1/8" PLY RIB DOUBLERS

1/4"⌀ BIRCH DOWEL

W7

1/16" SHEET ON BOTTOM UNDER PLATE FOR PUSHROD EXIT

1" x 3/8" HARDWOOD U/C BEAM & BLOCK

1/8" PLY TOP ENGINE BEARER PLATE

1/8" SHEET L.E. ANGLED

W6

1/8" x 3/8" T.E.

1/2" SHEET

1/16" GRP HORN

3/32" SHEET FACING

BUILD WING ON 3/8" SQ PACKING STRIP UNDER THIS SPAR FROM ROOT TO TIP - THIS GIVES CORRECT WASHOUT

W5

3/32" RIBS

W4

1/8" PLY BRACES TOP & BOTTOM

1/4" x 1/8" SPAR TOP & BOTTOM

BUTT LOWER SHEETING TO T.E. STRIP

W3

1/16" SHEET TOP & BOTTOM

W2

W1

W1

1/4" SQ.

AILERON SERVO ON 1/8" PLY PLATE TO SUIT

8G PIANOWIRE LEGS SHOWN IN POSITION

BRASS PLATES SOLDERED TO LEG

LAMINATE FAIRING & SPAT FROM 1/4" & 1/2" SHEET WITH 1/16" PLY INSERTS FACING WHEEL

INFILL

HINGE

SECTION AT BELLCRANK

RIBS - CUT W1 AND W11 DIRECT, PRODUCE W2 - W10 WITH SANDWICH METHOD
2 OFF W1 FROM 1/8" SHEET
2 OFF EACH W2 - W11 3/32" SHEET

1/16" PLY ON BOTTOM

BLOCK INFILL

1/8" RIBS

ADJUST INTERNAL WIDTH TO SUIT WHEEL BY CHANGING CENTRE LAMINATION WIDTHS

SLIM 3"⌀ WHEELS

PLY DOUBLER AT W1 ONLY

TYPICAL PLY DOUBLER

CUT AWAY AFTER ASSEMBLY FOR SERVO

W1

SLOT FOR DOWEL

1/8" PLY SERVO PLATE ON BEARERS

ROOT RIB ANGLE TEMPLATE