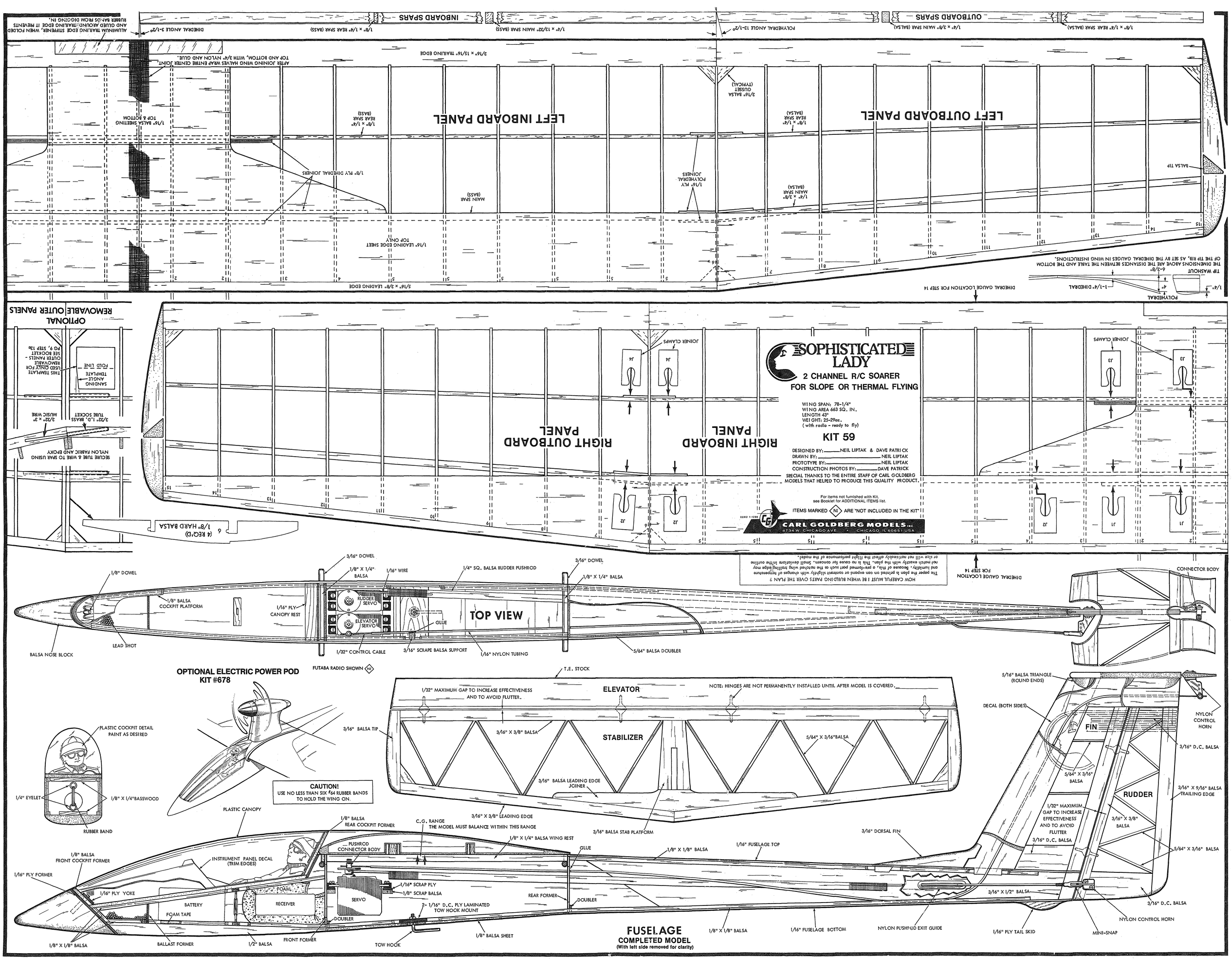
SOPHISTICATED LADY
2 CHANNEL R/C SOARER
FOR SLOPE OR THERMAL FLYING
WING SPAN: 78-1/4"
WING AREA 663 SQ. IN.
LENGTH 43"
WEIGHT: 25-29oz.
(with radio - ready to fly)
KIT 59
DESIGNED BY: NEIL LIPTAK & DAVE PATRICK
DRAWN BY: NEIL LIPTAK
PROTOTYPE BY: NEIL LIPTAK
CONSTRUCTION PHOTOS BY: DAVE PATRICK
SPECIAL THANKS TO THE ENTIRE STAFF OF CARL GOLDBERG MODELS THAT HELPED TO PRODUCE THIS QUALITY PRODUCT.
For items not furnished with Kit, see Booklet for ADDITIONAL ITEMS list.
ITEMS MARKED NI ARE "NOT INCLUDED IN THE KIT"
CARL GOLDBERG MODELS INC.
4734 W. CHICAGO AVE. • CHICAGO, IL 60651 USA
HOW CAREFUL MUST I BE WHEN BUILDING PARTS OVER THE PLAN ?
The paper the plan is printed on can expand or contract slightly with changes of temperature and humidity. Because of this, a pre-formed part such as the notched wing trailing-edge may not match exactly with the plan. This is no cause for concern. Small deviations in the outline or size will not noticeably affect the flight performance of the model.
LEFT OUTBOARD PANEL
LEFT INBOARD PANEL
RIGHT INBOARD PANEL
RIGHT OUTBOARD PANEL
OUTBOARD SPARS
INBOARD SPARS
1/8" x 1/4" REAR SPAR (BALSA)
1/4" x 3/8" MAIN SPAR (BALSA)
1/4" x 13/22" MAIN SPAR (BASS)
1/8" x 1/4" REAR SPAR (BASS)
POLYHEDRAL ANGLE 13-1/2°
DIEDRAL ANGLE 3-1/2°
ALUMINUM TRAILING EDGE STIFFENER, WHEN FOLDED AND GLUED AROUND TRAILING EDGE IT PREVENTS RUBBER BANDS FROM DIGGING IN.
AFTER JOINING WING HALVES WRAP ENTIRE CENTER JOINT, TOP AND BOTTOM, WITH 3/4" NYLON AND GLUE.
3/16" x 15/16" TRAILING EDGE
5/16" x 3/8" LEADING EDGE
1/16" LEADING EDGE SHEET TOP ONLY
MAIN SPAR (BASS)
1/8" PLY DIHEDRAL JOINERS
1/16" BALSA SHEETING TOP & BOTTOM
1/8" x 1/4" REAR SPAR (BASS)
1/4" x 3/8" MAIN SPAR (BALSA)
1/16" PLY POLYHEDRAL JOINERS
3/16" BALSA GUSSET (TYPICAL)
1/8" x 1/4" REAR SPAR (BALSA)
BALSA TIP
DIEDRAL GAUGE LOCATION FOR STEP 14
POLYHEDRAL
1/4"
1-1/4" DIEDRAL
TIP WASHOUT
6-3/8"
THE DIMENSIONS ABOVE ARE THE DISTANCES BETWEEN THE TABLE AND THE BOTTOM OF THE TIP RIB, AS SET BY THE DIHEDRAL GAUGES IN WING INSTRUCTIONS.
JOINER CLAMPS
J1
J2
J3
J4
OPTIONAL REMOVABLE OUTER PANELS
SECURE TUBE & WIRE TO SPAR USING NYLON FABRIC AND EPOXY
3/32" I.D. BRASS TUBE SOCKET
3/32" x 3" MUSIC WIRE
SANDING ANGLE TEMPLATE
THIS TEMPLATE USED ONLY FOR REMOVABLE OUTER PANELS - SEE BOOKLET PG 9, STEP 13a
FOLD LINE
6 (4 REQ'D) 1/8" HARD BALSA
1/8" DOWEL
3/16" DOWEL
1/8" X 1/4" BALSA
1/16" WIRE
1/4" SQ. BALSA RUDDER PUSHROD
1/8" BALSA COCKPIT PLATFORM
1/16" PLY CANOPY REST
RUDDER SERVO
ELEVATOR SERVO
GLUE
TOP VIEW
BALSA NOSE BLOCK
LEAD SHOT
1/32" CONTROL CABLE
3/16" SCRAPE BALSA SUPPORT
1/16" NYLON TUBING
5/64" BALSA DOUBLER
CONNECTOR BODY
DIEDRAL GAUGE LOCATION FOR STEP 14
OPTIONAL ELECTRIC POWER POD KIT #678
FUTABA RADIO SHOWN NI
PLASTIC COCKPIT DETAIL PAINT AS DESIRED
1/4" EYELET
1/8" X 1/4" BASSWOOD
RUBBER BAND
CAUTION! USE NO LESS THAN SIX #64 RUBBER BANDS TO HOLD THE WING ON.
PLASTIC CANOPY
T.E. STOCK
1/32" MAXIMUM GAP TO INCREASE EFFECTIVENESS AND TO AVOID FLUTTER.
ELEVATOR
NOTE: HINGES ARE NOT PERMANENTLY INSTALLED UNTIL AFTER MODEL IS COVERED.
3/16" BALSA TIP
3/16" X 3/8" BALSA
STABILIZER
5/64" X 3/16" BALSA
3/16" BALSA LEADING EDGE JOINER
3/16" X 3/8" LEADING EDGE
3/16" BALSA STAB PLATFORM
5/16" BALSA TRIANGLE (ROUND ENDS)
DECAL (BOTH SIDES)
FIN
NYLON CONTROL HORN
3/16" D.C. BALSA
5/64" X 3/16" BALSA
RUDDER
3/16" X 9/16" BALSA TRAILING EDGE
1/32" MAXIMUM GAP TO INCREASE EFFECTIVENESS AND TO AVOID FLUTTER
3/16" X 3/8" BALSA
3/16" D.C. BALSA
5/64" X 3/16" BALSA
1/8" BALSA REAR COCKPIT FORMER
C.G. RANGE THE MODEL MUST BALANCE WITHIN THIS RANGE
1/8" X 1/4" BALSA WING REST
3/16" DORSAL FIN
PUSHROD CONNECTOR BODY
GLUE
1/8" X 1/8" BALSA
1/16" FUSELAGE TOP
1/8" BALSA FRONT COCKPIT FORMER
INSTRUMENT PANEL DECAL (TRIM EDGES)
1/16" PLY FORMER
1/16" PLY YOKE
FOAM
BATTERY
RECEIVER
SERVO
1/16" SCRAP PLY
1/8" SCRAP BALSA
REAR FORMER
DOUBLER
3/16" X 1/2" BALSA
3/16" D.C. BALSA
FOAM TAPE
2- 1/16" D.C. PLY LAMINATED TOW HOOK MOUNT
NYLON CONTROL HORN
1/8" X 1/8" BALSA
BALLAST FORMER
1/2" BALSA
FRONT FORMER
TOW HOOK
1/8" BALSA SHEET
1/8" X 1/8" BALSA
1/16" FUSELAGE BOTTOM
NYLON PUSHROD EXIT GUIDE
1/16" PLY TAIL SKID
MINI-SNAP
FUSELAGE
COMPLETED MODEL
(With left side removed for clarity)