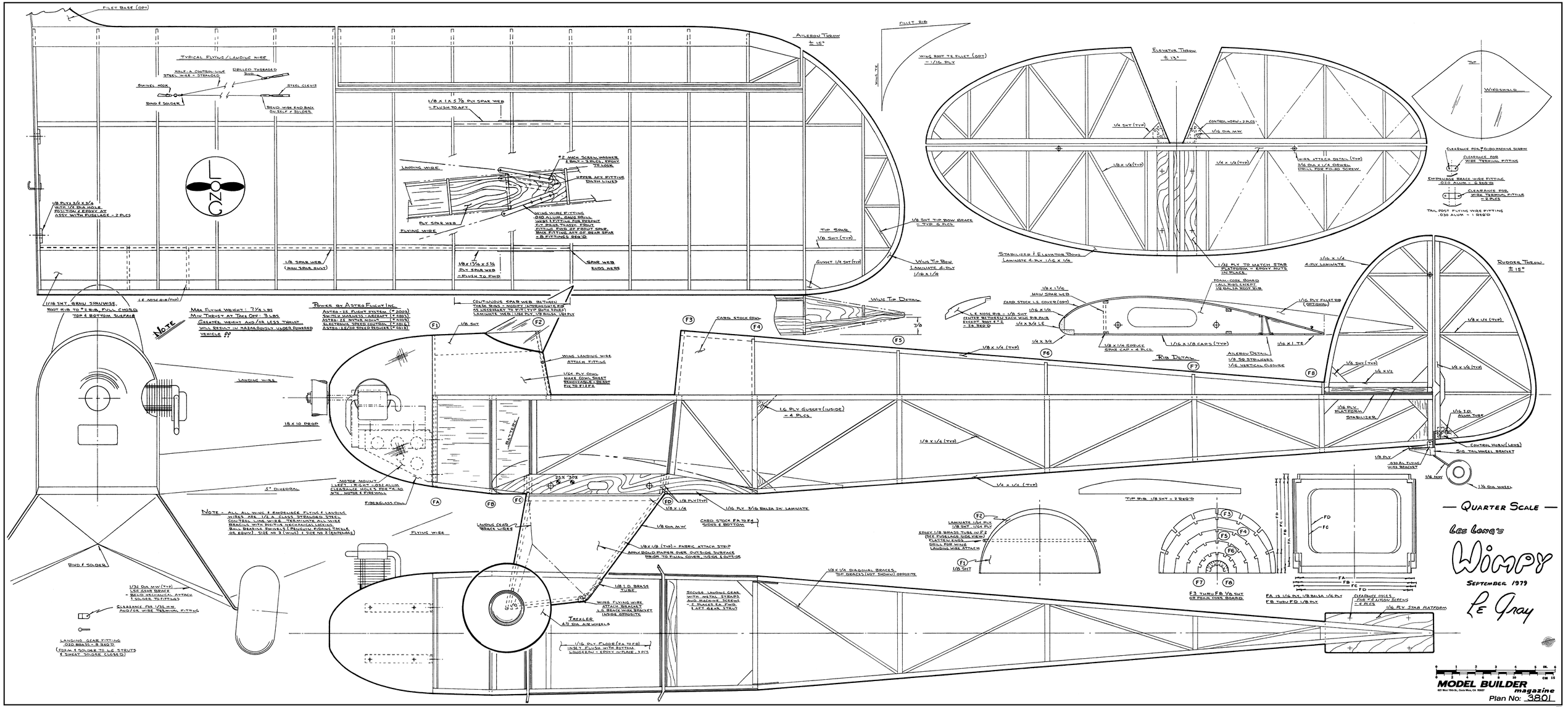
FILLET BASE (OPT)
TYPICAL FLYING/LANDING WIRE
HALF A CONTROL WIRE STEEL WIRE + STRANDED
DRILLED THREADED ROD
SWIVEL HOOK
STEEL CLEVIS
BIND & SOLDER
BEND WIRE END BACK ON SELF & SOLDER.
1/8 x 1 x 5 7/8 PLY SPAR WEB - FLUSH TO AFT
LANDING WIRE
#2 MACH SCREW, WASHER & BOLT - 3 PLCS, EPOXY TO LOCK
UPPER WING FITTING DOUBLE WALL
WING WIRE FITTING .040 ALUM. GAGE DRILL WIRE & FITTING FOR DESIRED V.F. BASED TO ROOT. FRONT FITTING END OF FRONT SPAR WIRE FITTING AT OF REAR SPAR - 8 FITTINGS REQ'D
PLY SPAR WEB
FLYING WIRE
1/8 SPAR WEB (MAIN SPAR ONLY)
1/8 x 1 1/4 x 5 3/4 PLY SPAR WEB - FLUSH TO FWD
SPAR WEB ENDS HERE
1/8 PLY x 3/4 x 3/4 WITH 1/4 DIA HOLE POSITION & EPOXY AT ASSY. WITH FUSELAGE - 2 PLCS
1/8 SHT. GRAIN SPRUWISE, ROOT RIB TO #2 RIB, FULL CHORD TOP & BOTTOM SURFACE
L.E. NOSE RIB (TYP)
NOTE
MAX FLYING WEIGHT: 7 1/4 LBS
MIN THRUST AT TAKE OFF: 3 LBS
GREATER WEIGHT AND/OR LESS THRUST WILL RESULT IN HAZARDOUSLY UNDER POWERED VEHICLE !!
POWER BY ASTRO FLIGHT INC.
ASTRO-25 FLIGHT SYSTEM (#2003)
SWITCH HARNESS - AIRCRAFT (#1003)
ASTRO-25 MOTOR MOUNT (#1003)
ELECTRONIC SPEED CONTROL (#1016)
ASTRO-16/20 SPEED REDUCER (#1010)
CONTINUOUS SPAR WEB (BETWEEN THESE RIBS - MOUNT INTERCONNECTS AS NECESSARY TO FIT LTYP BETWEEN SPARS)
LAMINATE WEB: 1/16 PLY, 1/8 BALSA, 1/16 PLY
AILERON THROW ± 15°
FILLET RIB
WING ROOT TE FILLET (OPT) - 1/16 PLY
WING TE
TIP SPAR 1/8 SHT (TYP)
1/8 SHT TIP BOW BRACE - TYP 6 PLCS.
WING TIP BOW LAMINATE 4-PLY 1/16 x 1/4
GUSSET 1/4 SHT (TYP)
WING TIP DETAIL
7/8
ELEVATOR THROW ± 15°
1/4 SHT (TYP)
CONTROL HORN - 2 PLCS
1/16 DIA MW
1/8 x 1/4 (TYP)
1/4 x 1/4 (TYP)
HINGE ATTACH DETAIL (TYP) 3/16 DIA x 1/4 DOWEL DRILL FOR #0-80 SCREW
STABILIZER & ELEVATOR BOOMS LAMINATE 4-PLY 1/16 x 1/4
1/32 PLY TO MATCH STAB PLATFORM - EPOXY BUTT IN PLACE
FOAM-CORE BOARD (ALL RIBS EXCEPT: 1/8 BALSA ROOT RIB)
1/16 PLY FILLET RIB (OPTIONAL)
WINDSHIELD
CLEARANCE FOR #0-80 MACHINE SCREW
CLEARANCE FOR WIRE TERMINAL FITTING
EMPENNAGE BRACE WIRE FITTING .020 ALUM - 8 REQ'D
CLEARANCE FOR WIRE TERMINAL FITTING - 2 PLCS
TAIL POST FLYING WIRE FITTING .030 ALUM - 1 REQ'D
1/16 x 1/4 4-PLY LAMINATE
RUDDER THROW ± 15°
1/8 x 1/4 (TYP)
1/8 x 1/4 (TYP)
1/16 PLY PLATFORM STABILIZER
1/16 I.D. ALUM TUBE
CONTROL HORN (LONG)
SIG. TAIL WHEEL BRACKET
1/8 PLY
.030 AL. TUBING WIRE BRACKET
1/8 MW
1 3/8 DIA WHEEL
1/8 x 1 7/16 MAIN SPAR WEB
CARD STOCK L.E. COVER (OPT)
1/16 x 1/4
L.E. NOSE RIB - 1/8 SHT CENTER BETWEEN EACH WING RIB PAIR EXCEPT ROOT # 1 - 28 REQ'D
1/4 x 3/4 L.E.
1/4 x 3/4
1/8 x 1/4 SPRUCE SPAR CAP - 4 PLCS.
1/16 x 1/8 CARB (TYP)
1/16 x 1/8 TE
AILERON DETAIL 1/8 SQ STRINGERS 1/16 VERTICAL CLOSURE
RIB DETAIL
F1 F2 F3 F4 F5 F6 F7 F8
1/8 SHT
CARD STOCK COWL
WING LANDING WIRE ATTACH FITTING
1/16 PLY COWL MAKE COWL SHEET REMOVABLE - DO NOT FIX TO F1 & F2
LANDING WIRE
18 x 10 PROP
BATTERY
1/16 PLY GUSSET (INSIDE) - 4 PLCS.
1/8 x 1/4 (TYP)
1/8 x 1/4 (TYP)
1/4 x 1/4 (TYP)
MOTOR MOUNT 1 LEFT, 1 RIGHT - .032 ALUM CLEARANCE HOLES FOR #4-40 ATT. MOTOR & FIREWALL
5° DIHEDRAL
FIBERGLASS COWL
FA FB FC FD
1/8 PLY (TYP)
1/8 x 1/4
1/16 PLY 3/16 BALSA 3PLY LAMINATE
CARD STOCK FA TO F4 SIDES & BOTTOM
1/8 DIA MW
LANDING GEAR BRACE WIRES
FLYING WIRE
1/8 x 1/8 (TYP) - FABRIC ATTACH STRIP
APPLY BOND PAPER OVER OUTSIDE SURFACE PRIOR TO FINAL COVER, INSIDE & OUTSIDE
NOTE - ALL ALL WING & EMPENNAGE FITTING & LANDING WIRES ARE 1/2 A CLASS STRANDED STEEL. CONTROL LINK WIRE TERMINATE ALL WIRE BRACING WITH SWITCH MECHANICAL LOCKING BALL BEARING SWIVELS (PREFERRED FISHING TACKLE OR EQUIV) SIZE NO 3 (WING) & SIZE NO 2 (EMPENNAGE)
BIND & SOLDER
1/32 DIA MW (TYP) LGS GEAR BRACE - BEND MECHANICAL ATTACH & SOLDER TO FITTINGS
CLEARANCE FOR 1/32 MW AND/OR WIRE TERMINAL FITTING
LANDING GEAR FITTING .020 BRASS - 8 REQ'D (FORM & SOLDER TO LG STRUTS & SWEAT SOLDER CLOSED)
1/8 I.D. BRASS TUBE
WING FLYING WIRE ATTACH BRACKET & L.G. BRACE WIRE BRACKET INSIDE OPPOSITE
TRIKLER 4 1/2 DIA AIR WHEELS
1/16 PLY FLOOR (FA TO F.D) INSET FLUSH WITH BOTTOM LONGERON - EPOXY IN PLACE - 3 PCS
SECURE LANDING GEAR WITH METAL STRAPS AND MACHINE SCREWS - 6 PLACES EA. FWD. (AFT GEAR STRUT)
1/8 x 1/4 DIAGONAL BRACES, TOP BRACES (NOT SHOWN) OPPOSITE
LAMINATE 1/16 PLY 1/8 SHT. 1/64 PLY
EPOXY 1/8 BRASS TUBE IN F.2 (SEE FUSELAGE SIDE VIEW) PLATTEN ENDS. DRILL FOR WING LANDING WIRE ATTACH
F1 1/8 SHT
F2 F3 F4 F5 F6 F7 F8
F3 THRU F8 1/8 SHT OR FOAM CORE BOARD.
TIP RIB 1/8 SHT - 2 REQ'D
FA 15 1/16 PLY, 1/8 BALSA, 1/16 PLY
FB THRU FD 1/8 PLY
CLEARANCE HOLES FOR #2 FILLISTON SCREWS - 4 PLCS
1/16 PLY STAB PLATFORM
— QUARTER SCALE —
Lee Long's
Wimpy
SEPTEMBER 1979
Le Gray
MODEL BUILDER magazine
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