



06/10/15

**SOPWITH CAMEL
PARTS LIST MA1030**

Note: This parts list describes the parts supplied in the kit. Parts lists are also included in the instruction manual, and part numbers shown on sketches and plans. The WP part numbers herein are Model Expo stock numbers.

PART #	ITEM	QUANTITY	NOTES
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BRITANNIA METAL CASTINGS

CLE02	Crankcase	1	
CLE03	Crankcase covers	2	
CLE04	Front propeller hub	1	
CLE05	Rear propeller hub	1	
CLE06	Camshaft box	1	
CLE07	Induction box	1	
CLE08	Igniter ring	1	
CLE09	Spark plugs	18	
CLE11	Cylinders	9	
CLE12	Cylinder heads	9	
CLE15i	Intake rocker arms	9	
CLE15e	Exhaust rocker arms	9	
CLE16	Induction pipes	9	
CAW18	Wing tips	4	
CAW19	Upper wing center trailing edge	1	
CAW20	Compression bar	15	
CAW21a	Aileron hinges	12	
CAW21b	Aileron hinges	12	
CAW22	Aileron horns	4	
CAW23	Aileron cable anchors	4	
CAW24	Aileron pulleys	4	
CAW25	Interplane compression bars	6	
CAW32	Elevator & rudder hinges	7	
CAW33	Horizontal stabilizer	1	
CAW34	Elevator	1	
CAW35	Elevator & rudder horns	3	

CAW36	Vertical stabilizer	1
CAW37	Rudder	1
CAW38	Front lower wing joint	1
CAW39	Rear lower wing joint	1
CAW40-1	Cabane struts	1
CAW40-2	Cabane struts	1
CAW40-3	Cabane struts	1
CAW40-4	Cabane struts	1
CAW41	False bolts	12
CAW42	Interplane strut joints	8
CAF05	Fuselage bracing eyes	64
CAF12	Angle braces	2
CAF13	Angle braces & fairleads	1
CAF15	Front machine gun support	1
CAF16	Rear machine gun support	1
CAF17a	Oil tank	1
CAF17b	Oil tank	1
CAF18	Main fuel tank halves	2
CAF18a	Main fuel tank filler pipe	1
CAF19a	Auxiliary fuel tank	1
CAF19b	Auxiliary fuel tank	1
CAF23	Control stick	1
CAF24	Control trunnion	1
CAF25	Rudder bar	1
CAF26	Rudder bar & stick support pivots	3
CAF27	Rudder bar pin	1
CAF28	Control pulleys	4
CAF29	Aileron control crank	1
CAF30	Oil & fuel filler caps	2
CAF31	Throttle handle	1
CAF32	Throttle quadrant	1
CAF33	Fuel filter	1
CAF34	Fuel tank selector	1
CAF35	Hand pump	1
CAF36a	Seat & back	1
CAF36b	Seat & back	1
CAF38	Front engine mount	1
CAF37	Mixture control	1
CAF39	Oil pump	1
CAF40	Air pump	1

CAF41	Magnetos	2
CAF42a	Magnetos support	1
CAF42b	Magnetos support	1
CAF43	Rear engine support	1
CAF44	Hand starter	1
CAF45	Carburetor	1
CAF48	Rigging attachment	2
CAF50	Compass & inclinometer	1
CAF51	Tachometer, Airspeed indicator, Altimeter	3
CAF53	Pulsometer	1
CAF54	Magneto switches	2
CAF56	Watch	1
CAF57	Air pressure gauge	1
CAF60a	Vickers gun & charging lever	2
CAF60b	Vickers gun & charging lever	2
CAF61	Ring gun sight	1
CAF62a	Ammunition boxes/discharge chutes	1
CAF62b	Ammunition boxes/discharge chutes	1
CAF64	Tail skid	1
CAF69	Axle assembly	1
CAF70 l	Landing gear struts	1
CAF70 r	Landing gear struts	1
CAF73	Engine end cap	1
CAF75	Pitot tube	1
CAF76	Fuel pressure pump	1
CAF77	Cabane bracing tensioner	1
W042	Turnbuckles	100
A011	External wheel halves	2
A012	Internal wheel halves	2
A014	Hub caps	2
JIG 7a	Fuselage jig	2
JIG 7b	Fuselage jig	1
JIG 7c	Fuselage jig	1
CAF78	Fuel gauge	1
CAF79	T-connector	1

BRASS, COPPER, STEEL, ROD, WIRE AND TUBING

Note: The following sizes and quantities are provided in the kit. Cut to length as required for specific parts.

WP40223SEC	0.025" (0.64 mm) copper wire	5 ft	Piping
WP161K-12	3/64" x 12" brass rod	4	Wing trailing edges Bungee retainer
WP160K-12	1/32" x 12" brass rod	2	Valve lifters
WP129K-12	3/16" x 6" brass tube	1	2 Crankshaft tube 1 1/2" 2 Air intake 1"
WPGR9-15	5/32" x 2 5/8" brass rod	1	Crankshaft
WP0976	1/4" copper tape	24"	
WP0434	3/32" brass eyebolts	22	Aileron cable guides/rigging
WP9912	#8-32 wing nut steel	1	Jig 7 wing nut
WP5120	1/4 bolt	1	Propeller
WP5121	1/4 nut	1	Propeller
WP2839/GS2-3	eyelets small	22	Engine tappet seats
WP2841/GS4-7	eyelets medium	5	Engine support connectors Tail skid socket
WP2842/GS5-12	eyelets large	2	Axle sleeves
WP1701	14 AWG ins. Copper wire	8"	Cockpit coaming
WP29162	Instruments faces	1	Gloss paper
WPA013	Tires	2	Rubber casting

RIGGING

Note: The following sizes and quantities are provided in the kit. Cut to length as required for specific parts.

WP1205	Gray Nylon	20 yds	Rigging wires, control cable
WP1218	Black Nylon	2 yds	Ignition wires
WP1227	Beige Nylon	1 yd	Bungee cord

WOOD STRIPS & SHEET

Note: All wood is Basswood or Limewood (European Basswood) unless otherwise noted. The following sizes and quantities are provided in the kit. Cut as required for specific parts.

WP3603-24	1/32" x 3/32" x 12"	40	Rib caps
WP3618-24	1/16" x 1/16" x 12"	6	Rear aileron spars, wing braces, fairing stringers

WP3625-24	3/32" x 3/32" x 12"	12	Front aileron spars, horizontal stabilizer spar, longerons, fuselage frames, seat rails, fairing end piece
WP3631-24	1/8" x 1/8" x 12"	4	Rear wing spars
WP3648-24	5/32" x 5/32" x 12"	4	Front wing spars
WP3671-24	5/32" x 3/16" x 12"	4	Wing leading edges
WP3629-24	3/32" x 1/4" x 12"	2	Interplane struts

LASER CUT WOOD PARTS

Note: All laser cut wood in the kit is Basswood or Limewood (European Basswood), and Birch plywood unless otherwise noted.

WP4632-A	<u>3/64" Thick Plywood</u>	2	
WP4632-AA			
	CAW01	2 pc	ribs
	CAW02	28 pc	ribs
	CAW03	8 pc	ribs
	CAW04	4 pc	ribs
	CAW05	16 pc	ribs
	CAW06	4 pc	ribs
	CAW07	4 pc	aileron ribs
	CAW08	51 pc	nose ribs
	CAW09	8 pc	horizontal stabilizer ribs
	CAW10	6 pc	horizontal stabilizer nose ribs
WP4632-B	<u>3/64" Thick Plywood</u>	1	
	CAF03	4 pc	cockpit base
	CAF04	4 pc	diagonal mounts
	CAF06	2 pc	nose frame
	CAF08	1 pc	false frame "E"
	CAF09	1 pc	false frame "F"
	CAF10	1 pc	false frame "G"
	CAF11	1 pc	false frame "H"
	CAF21	1 pc	false frame "D"
	CAF49	1 pc	instrument panel
WP4640-D	<u>5/32" Thick Basswood</u>	1	
	CLE17	3pc	Propeller

PLANS AND INSTRUCTIONS

WP1030MB	Instruction manual	1
WPPL1030-A	Plans, Set of 5	1
WPPL1030	Parts List	1

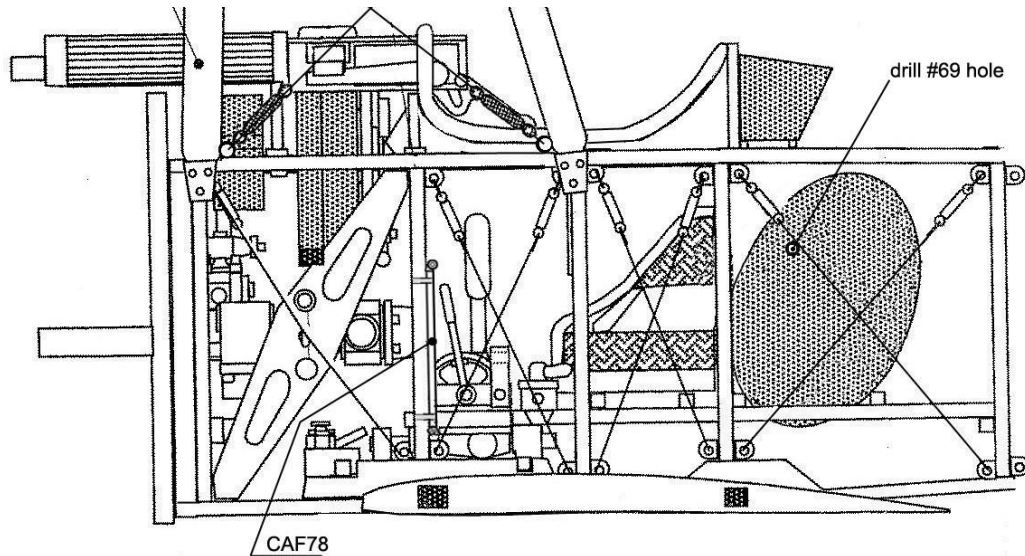
PLEASE NOTE THE FOLLOWING MISPRINTS/CHANGES:

- NOTE:** * CAF62 and CAF63 are now CAF62A and CAF62B
- PAGE 4** WP162-1.2 1/16" rod should be WP160k-12 1/32" rod
- PAGE 5** CLE13 should be WP160k-12 and is 1/32"
CLE14 should be GS2-3
- PAGE 14** On jig #5 part shown as CAF12 is 3/32"x 3/32" strip wood
- PAGE 18** Attached is a copy of revisions to fig.25 as shown on page 18 of the instruction which shows the addition of castings CAF 78 and CAF 79 to the fuel pining schematic. These castings are also incorporated into the parts list and the cast metal parts list.
- DRAWING 3** CAW27 is WP3618-24 1/16"x1/16" strip wood also shown on page 11, fig 11
- DRAWING 5** JIG # 1 CAW011 should be 1/32" x 3/32"
JIG # 6 3/8" x 2 3/8" x 1/16" should be 3/8" x 2 3/8" x 1 1/16"

WE APOLOGIZE FOR ANY INCONVENIENCE THIS MAY CAUSE IN CONSTRUCTION

CORRECTION TO FUEL SYSTEM

The extra fuel line from the bottom of the main fuel tank is routed to the bottom of a tubular fuel gauge (CAF78) and from the gauge's angled top fitting back to the main fuel tank. Drill a #69 hole in the side of the main fuel tank and mount the fuel gauge to the left forward cockpit vertical frame with two 1/8" strips of copper tape so the gauge's top angled fitting faces out, as below.



Using the provided copper wire, pipe the fittings per the new schematic Fig.25. Note that Fig.25 does not purport to show the actual piping runs. These should be kept as short as possible while considering neatness and clearance -- especially where the air line passes the rudder bar. The line from the wind-driven air pump (CAF76) should be connected to the line from the hand pump by means of the T-connector (CAF79).

