



Model Airways, Inc.
A Division of Model Expo, Inc.

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Note: This parts list describes the parts that are supplied in the kit. Parts lists are also included in each stage of the instruction manual. Other materials are identified only by material and size. The WP part numbers herein are Model Expo stock numbers. These do not appear in the instructions and on the plans.

MA1020 - WRIGHT FLYER - MASTER PACKAGING PARTS LIST

PARTS LIST FOR WINGS

Part number	Part name	Count	Material	Size
WF-L01	Forward rib half	80	laser cut wood	1mm (.040) thick
WF-L02	Aft rib half	70	laser cut wood	1mm (.040) thick
WF-L03	Aft tip rib #1	4	laser cut wood	1mm (.040) thick
WF-L04	Aft tip rib #2	4	laser cut wood	1mm (.040) thick
MS3682	Leading edge spar	6	wood strip	3x4mm (1/8x5/32)
MS3682	Main spar	6	wood strip	3x4mm (1/8x5/32)
WF-L05	Wing tips	4	laser cut wood	3mm (1/8")
KS498	Trailing edge wire	2	wire	.35mm (.015") dia
MS3620	Diagonal brace strut		wood strip	1.5 x3mm (1/16 x 1/8")
MS3618	Cap strip		wood strip	1.5x1.5mm (1/16 x 1/16")
MS3620	Pilot brace		wood strip	1.5 x3mm (1/16 x 1/8")
WF-L06	Engine support rails	2	laser cut wood	3mm (1/8")
MS1810	Reinforcements		Self adhesive brass tape	
MS3619	Magneto supports		wood strip	2.5x1.5 (1/16 x 3/32")
MS3619	Rib reinforcing bar		wood strip	2.5x1.5 (1/16 x 3/32")

PARTS LIST FOR WING BUILDING JIG

Part number	Part name	Count	Material	Size
WF-L07	Wing building jig formers	5	laser cut wood	3mm (1/8")
MS3623	Wing building jig stringers	5	wood strip	1.5x6.5 mm (1/16 x 1/4)

PARTS LIST FOR WING WARPING CRADLE

Part number	Part name	Count	Material	Size
MS 3669	Pilot support braces	2	wood strip	1.5 x 4 mm (1/16 x 5/32")
MS 3669	Hip cradle	2	wood strip	1.5 x 4 mm (1/16 x 5/32")
WF-PE07	Hip cradle braces	2	photoetched	.5mm (0.020")
WF-PE08	Operating arm	2	photoetched	.5mm (0.020")
MS 3669	Foot support	2	wood strip	1.5 x 4 mm (1/16 x 5/32")
WP0975	Cushion		brass tape	24" x 1/8" wide)
MS 1423	Control chain		chain	

PARTS LIST FOR ENGINE

Part number	Part name	Count	Material	Size
WF-B01	Magneto stator	1	Britannia	
WF-B02	Magneto rotor housing	1	Britannia	
WF-B03	Magneto friction wheel	1	Britannia	
WF-B04	Engine flywheel	1	Britannia	
WF-B05	Radiator	1	Britannia	
WF-PE20	Top radiator strap	1	photoetched	.2mm (0.008")
WF-PE21	Bottom radiator strap	1	photoetched	.2mm (0.008")
WF-B06	Fuel tank	1	Britannia	
WF-PE22	Fuel tank strap	2	photoetched	.2mm (0.008")
WF-PE23	Fuel tank handle	1	photoetched	.2mm (0.008")
WF-B07	Fuel metering valve	1	Britannia	
WF-PE24	Fuel metering valve handle	1	photoetched	.5mm (0.020")
WF-PE25	Fuel metering valve scale	1	photoetched	.2mm (0.008")
WF-B08	Shaft sprocket spacer	1	Britannia	
MS0940	Fuel metering valve pin	1	escutcheon pin	
WF-B09	Gas cock	1	Britannia	
WF-PE26	Gas cock handle	1	photoetched	.5mm (0.020")
WF-B10	Oil pump	1	Britannia	
WF-B11	Crankcase oil collector	1	Britannia	
WF-B12	Crankcase oil distributor	1	Britannia	
SEC40223	Oil pipe	1	copper wire	.5mm

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WF-B13	Crankcase - top	1	Britannia	
WF-B14	Crankcase - bottom	1	Britannia	
WF-B15	Crankshaft clamps	2	Britannia	
WF-B16	Ignition heads #1 & #3	2	Britannia	
WF-B17	Ignition heads #2 & #4	2	Britannia	
WF-B18	Ignition cam shaft	1	Britannia	
WF-PE27	Ignition cam followers and springs	2	photoetched	.2mm (0.008")
WF-PE28	Ignition terminal strip	1	photoetched	.2mm (0.008")
MS0940	Ignition bolts	4	escutcheon pins	
SEC40282	Ignition wire		black copper	28 gauge
WF-B19	Intake valve stems	4	Britannia	
WF-B20	Intake manifold	1	Britannia	
WF-B21	Exhaust cam shaft	1	Britannia	
WF-PE29	Exhaust rocker arms	4	photoetched	.008" (.2mm)
KS126	Crankshaft	1	brass rod	3/32" diameter
WF-B22	Crankshaft oiler	1	Britannia	
WF-B23	Tensioning roller and bracket	1	Britannia	
WF-B24	Anemometer/stop watch assembly	1	Britannia	
WF-PE30	Crankshaft sprocket	1	photoetched	.5mm (0.020")
WF-PE31	Camshaft sprocket	1	photoetched	.5mm (0.020")
WP1730	Fuel and water lines, vinyl tube			12", 1/16" Outside Diameter
WP1731	Steam line, vinyl tube			8", 3/32" Outside Diameter
SEC40223	Copper fuel lines			
	copper wire			

PARTS LIST FOR INSTRUMENTS

Part number	Part name	Count	Material	Size
WF-PE33	Anemometer blades	1	photoetch	.2mm (0.008")
WF-PE34	Anemometer bracket	1	photoetch	.2mm (0.008")
WF-PE35	Revolution counter bracket	1	photoetch	.2mm (0.008")
WF-PE36	Revolution counter bracket doubler	1	photoetch	.2mm (0.008")
WF-PE19	Revolution counter	1	photoetch	.2mm (0.008")

PARTS LIST FOR WING STRUTS

Part #	Part name	Count	Material	Size
WF-PE03	Strut plate	32	photoetched	.008" (.2mm)
WF-PE04	Strut fitting	40	photoetched	0.020" (.5mm)
MS3620	Wing strut	18	wood strip	1.5 x3mm (1/16 x 18")
WF-PE05	Wing strut eye	40	photoetched	.020" (.5mm)
WF-PE06	Strut plate with hinge plates	8	photoetched	0.008" (.2mm)
MS1205	Wing truss wire	50'	thread	

PARTS LIST FOR WING ASSEMBLY JIG

Part number	Part name	Count	Material	Size
WF-L08	Inner wing assembly jig	2	laser cut wood	3mm (1/8) thick
WF-L09	Outer wing assembly jig	2	laser cut wood	3mm (1/8) thick
WF-L10	Wing assembly jig stringers- end	6	laser cut wood	3mm (1/8) thick
WF-L11	Wing assy jig stringer - middle	3	laser cut wood	3mm (1/8) thick

PARTS LIST FOR WING WARPING

Part number	Part name	Count	Material	Size
WF-PE02	Warping pulley housing	4	photoetched	0.008" (.2mm)
KS1109	Pulley	4	Al tube	1/8" dia
MS1423	Control chain	6"	chain	
WF-PE01	Rudder bell crank	2	photoetched	.5mm (0.020")

PARTS LIST FOR DRIVE TRAIN

Part number	Part name	Count	Material	Size
WF-PE32	Drive sprocket	1	photoetched	.5mm (0.020")
WF-B25	Chain guide roller		Britannia	
WF-PE09	End plates for propeller support	4	photoetched	0.008" (.2mm)
MS2017	Drive chain	1 foot	chain	
WF-B26	Right chain guide	1	Britannia	
WF-B27	Left chain guide	1	Britannia	
WF-PE10	Propeller shaft sprocket	2	photoetched	.5mm (0.020")
WF-B28	Guide support eye	1	Britannia	
WF-B29	Left guide support brace	1	Britannia	
WF-B30	Propeller support	2	Britannia	

PARTS LIST FOR LANDING SKID ASSEMBLY

Part #	Part name	Count	Material	Size
MS3619	Skid rails	2	wood strip	1.5 x 2.5 mm (1/16 x 3/32")
MS3619	Struts	10	wood strip	1.5 x 2.5 mm (1/16 x 3/32")
MS3622	Cross tie	3	wood strip	1.5x5 mm (1/16X3/16")
WF-PE14	2 mm brace material	2	photoetched	.2mm (0.008")

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MS3619	Center strut	1	wood strip	1.5 x 2.5 mm (1/16 x 3/32")
WF-PE15	Brace	2	photoetched	.2mm (0.008")

PARTS LIST FOR ELEVATOR CONTROL FRAME

Part number	Part name	Count	Material	Size
MS3622	Front cross tie	1	wood strip	1.5x5 mm (1/16X3/16")
WF-L16	Outrigger bottom	2	laser cut wood	3mm (1/8")
WF-L17	Outrigger front	2	laser cut wood	3mm (1/8")
MS3620	Diagonal strut	2	wood strip	1.5 x 3 mm (1/16 x 1/8)
MS3620	Brace	2	wood strip	1.5 x 3 mm (1/16 x 1/8)
MS3618	Upper cross ties	2	wood strip	1.5 x 1.5 mm (1/16 x 1/16)
MS3622	Lower cross tie	1	wood strip	1.5x5 mm (1/16X3/16")
KS101	Axel	1	Aluminum tube	3/32 dia
KS102	Hub body	1	Aluminum tube	1/8 dia
WF-PE11	Hub sides	2	photoetch	.2mm (0.008")
WF-PE12	Front roller bracket	1	photoetch	.5mm (0.020")

PARTS LIST FOR ELEVATORS

Part number	Part name	Count	Material	Size
MS3620	Center spar	2	wood strip	1.5 x 3mm (1/16 x 1/8)
WF-L12	Ribs	20	laser cut wood	1mm (.040")
WF-L13	LE	2	laser cut wood	3mm (1/8")
WF-L14	TE	2	laser cut wood	3mm (1/8")
MS3618	Operating strut	9	wood strip	1.5 x 1.5 mm (1/16 x 1/16")
KS 161	Elevator control rod	1	rod	1.2 mm (3/64") brass rod
WF-L15	Control pulley	2	laser cut wood	3mm (1/8")
MS3619	Lever arm	3	wood strip	1.5 x 2.5 mm (1/16 x 3/32")
MS3618	Shaft	1	wood strip	1.5 x 1.5 mm (1/16 x 1/16)
MS3619	Handle	1	wood strip	1.5 x 2.5 mm (1/16 x 3/32")
WF-L21	Pulley	2	laser cut wood	3mm (1/8")
WP0514	Control chain		chain	6"

PARTS LIST FOR RUDDERS

Part number	Part name	Count	Material	Size
MS3619	Rudder frame, sides	4	wood strip	1.5 x 2.5 mm (1/16 x 3/32")
MS3619	Rudder frame, top and bottom	4	wood strip	1.5 x 2.5 mm (1/16 x 3/32")
MS3618	Rudder rib	2	wood strip	1.5 x 1.5 mm (1/16 x 1/16")
MS3618	Spreader strut	6	wood strip	1.5 x 1.5 mm (1/16 x 1/16")
MS3620	Lower spacer	1	wood strip	1.5 x 3 mm (1/16 x 1/8")
MS3620	Upper spacer	1	wood strip	1.5 x 3 mm (1/16 x 1/8")
MS3618	Upper outrigger strut	2	wood strip	
MS3618	Lower outrigger strut	2	wood strip	1.5 x 1.5 mm (1/16 x 1/16")
WF-PE16	Upper rudder ferrule	2	photoetched	.2mm (0.008")
WF-PE17	Lower rudder ferrule	2	photoetched	.2mm (0.008")
WF-PE05	Eyes	8	photoetched	.2mm (0.008")

PARTS LIST FOR PROPELLERS

Part number	Part name	Count	Material	Size
WF-L18	Propeller front	2	laser cut wood	3mm
WF-L19	Propeller middle	2	laser cut wood	3mm
WF-L20	Propeller rear	2	laser cut wood	3mm
WP2591	Tip reinforcement		fabric	3" x 3"
WF-PE13	Propeller mounting plate	2	photoetch	.2mm (.008")
WF-B31	Propeller nuts	2	Britannia	

PARTS LIST FOR LAUNCHING DOLLY

Part number	Part name	Count	Material	Size
MS3640	Cross bar	1	wood strip	5mm x 5mm (3/16" x 3/16")
MS3631	Main beam	1	wood strip	3mm x 3mm (1/8" x 1/8")
WF-PE18	Side plates	2	photoetch	.05 mm (0.020")
KS101	Axel	2	3/32 tube	aluminum
KS102	Hub body	2	1/8 tube	aluminum
WF-PE11	Hub sides	4	photoetch	.2mm (.008")
MS3629	Rail	1	wood strip	2.5 mm x 6mm (3/32" x 1/4")
MS3624	Cross tie	1	woodstrip	1.5mm x 12mm (1/16" x 1/2")

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