CHAPTER 2 BILL OF MATERIALS

This chapter is a listing of the materials and components which are required to build a Long-EZ. The parts are catagorized by type for your convenience when ordering. The parts are also catagorized by plans chapter to assist you in locating them during construction.

RAF maintains a close liaison with the distributors listed to assure proper materials specification and quality control. The distributors listed here are the only approved sources for materials. Do not make substitutions for the structural materials shown. The indicated materials were selected, developed, tested, and optimized for ease of construction and structural integrity. RAF cannot provide assistance in the application of substitute materials. Each authorized distributor has a catalog or descriptive price list of the materials and components that they provide. The catalogs often cover a range of items beyond the basic requirements shown in this B.O.M. and serve as a very handy reference. Those distributors who charge for their catalogs will refund the catalog charge with your first order.

AIRCRAFI ... P.O.Box 424, AIRCRAFT SPRUCE & SPECIALITY Fullerton, C (714)870-7551 92632

WICKS AIRCRAFT SUPPLY 410 Pine Street, Highland, II 62249 (618)654-7447

CUSTOM PREFAB PARTS.

(1) SC Strut Cover (fiberglass)
(1) NB Nosegear Box (fiberglass)
(2) Seat belt/Harness Assembly
(2) Main gear axles 1½" dia.
(2) SB Sump Blister (fiberglass)
(1) CI Cowl Inlet (fiberglass)
(1 ea) CCT and CCB Continental Cowl

(1 ea) CCT and CCB Continental Low!
OR
(1 ea) LCT and LCB Lycoming Cowl.
(1 kit) Upholstry, including 2 custom-fit
suitcases, 2 custom seat cushions and
2 custom headrests.

VFR INSTRUMENTS

Airspeed - 0-200 kts or 0-230 mph Altitude - Sensitive

Engine - due to the many options, refer to Chapter 22 and Chapter 21 and order to suit.

Birch aircraft plywood for templates 2 pcs. 16"x48"
Disposable co-polymer examination gloves, box of 200
Ply No.9 Gell Skin Protector, (1 lb) jar.
Epo Cleanse, epoxy hand cleaner (1 pint)
6-in long rubber squeegee, (2 each)
8 oz. unwaxed paper epoxy mixing cups, Lily #8SNI (200 each)
Bristle paint brushes, 1-in wide (100 each) & 2-in wide (50 each)
Scissors, 1 pair Wiss model 20W
Wood straight edge 1" x 4" x 72" (1 each)
Decimal tape measure, Stanley #61-112, (1 each)
Wood mixing sticks box of 500.
Disston Abrader #401C
5/8 counter bore with 1 pilot and 10" long shank. Disston Abrader #4010 5/8 counter bore with ½" pilot and 10" long shank.

PEEL PLY:

1" wide 50 yd. 2" wide 50 yd

0.041 safety wire 0.035 safety wire

Note: Aircraft Spruce catalog lists a large variety of composite-working tools.

KEN BROCK MANUFACTURING INC.

11852 Western Ave., Stanton. Ca 90680 Stanton, Ca (714)898-4366

Catalog \$2 - shows photos of all parts

CUSTOM PREFAB PARTS	- CHAPTER
(2) LMGA assembly (1) STEP - formed aluminum (2) AX 5 main gear axle 1½" dia. (1) LB-12345 Weldment (1) LB-10 arm (1) LB-11 Spring clip (1) LB-31415 Handle assy. with bearing (2) LB-16 Spacer (2) LB-18 Brackets (1) LB-21 Rod (2) CLT Lift tab (7) CS2 Formed hinge with bushing (9) CS3 Bracket (2) CS9 Plug (2) CS10 Lead weight (2) CS 11 Lead weight (2) CS 12 Belhorn with bushing (1) PTB Belcrank (2) CNL Aluminum bushing (2) CNL Aluminum bushing (3) CN2 STL bushing (1) NG6 Casting (1) NG6 Casting (1) NG6 Casting (1) NG6 Assy, including NG7and NG23 (2) NG8 Plates (1) NG9 Plates (1) NG401A Lower nose gear Assy, with tire tube friction, bolts, etc. (2) LE2026 Welded rudder pedal (1 LEFT, 1 RIGHT) (4) CS 13 Steel bushing (2) CS15 Belcrank with bearing (4) CS71 Brackets (5) CS72 Pulley brackets (2 pieces each) (5) CS75 Steel Bushings (2) BA Brake arms (3) Stick grips - rubber (10) CS 1 inserts (2) CS1A Inserts	CHAPTER 9 8 9 9 9 9 9 9 10 11 11 11 11 11 11 11 11 11 11 11 11
(1) PTB Belcrank (2) CNL Aluminum bushing (2) CN2 STL bushing	11 12 12
(1) NG6 Casting (1) NG15A Casting (1) NG16 Casting	13 13 13
(1) NG-4 Bracket (1) NG 10A/NG9 Assembly (pushrod) (1) NG6 Assy, including NG7and NG23 (2) NG8 Plates	13 13 13
friction, bolts, etc. (2) LE2026 Welded rudder pedal (1 LEFT, 1 RIGHT) (4) CS 13 Steel bushing	13 13 13
(2) CS15 Belcrank with bearing (4) CS71 Brackets (2) CS72 Pulley brackets (2 pieces each) (2) CS75 Steel Bushings	15 15 15
<pre>(2) Stick grips - rubber (10) CS 1 inserts</pre>	16 16 16
(2) CS131 Spacer (2) CS128 Belcrank with bearing (4) CS127 Brackets (2) CS201 Steel bushings	16 16 16 16 16
(2) CS132L Welded belhörn (1) CS122/124 Welded belhorn (2) CS202 Aluminum bushings (3) CS181 Inserts	16 16 16 16
(2) CS112 Steel Bushings (1) PTH Handle (1) RT1 Handle (2) RT2 Brackets (1 LEFT, 1 RIGHT)	16 17 17 17
(1) C1-L Handle (2) C2-L Arm (2) C3 Lug (1) C4 Block (2) C5 Rod	18 18 18 18
(2) C6 Tube (1) SC 1 Catch (1) C21 Machined Handle (2) CS13 Spacer	18 18 18 18
(12) LWA9 Aluminum bushings (2) A2 Brackets (4) A5 Brackets (2) CS301 Steel belhorn (1 LEFF, 1 RIGHF)	19 19 19 20
(2) FT-18 Fuel cap assembly	21

Brock also has available the individual parts for all assemblies listed.

RUTAN AIRCRAFT FACTORY INC. BLDG 13, AIRPORT MOJAVE, CA 93501 (305)824-2645

MG-1L MG-1L Main gear strut 22-1b S-glass NG-1L Nose gear strut 2.**8** lb. S-glass Plexiglass canopy bubble. THE FOLLOWING AIRFRAME KIT IS AVAILABLE FROM EITHER OF THE TWO DISTRIBUTORS LISTED.

AIRCRAFT SPRUCE & SPECIALTY P.O.BOX 424, FULLERTON, CA 92632 Telephone: (714) 870-7551

WICKS AIRCRAFT SUPPLY 410 PINE STREET, HIGHLAND, IL 62249 Telephone: (618)654-7447

CATALOG \$3 - REFUNDED WITH FIRST ORDER

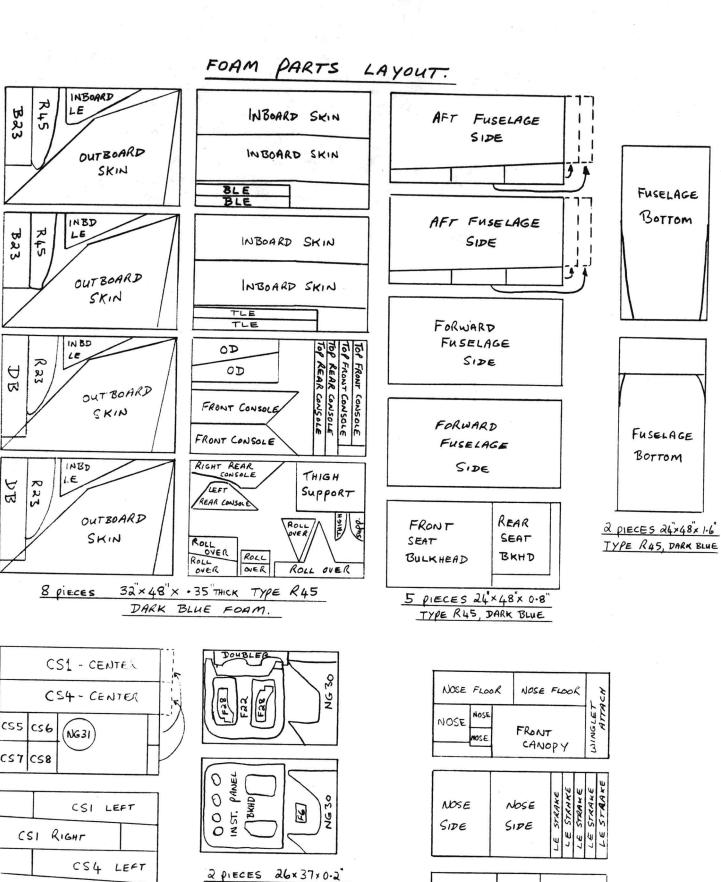
Note: This list is complete only if you purchase all available prefab parts. If you decide to build a prefab part, refer to its drawing and order material and hardwame as required.

Do obtain catalogs from all distributors. They contain photos of available parts and a considerable amount of imformation on hardwame, components and use of them.

Due to the many options available, refer to Chapter 22 and order to suit.

BASIC AIRFRAME KIT

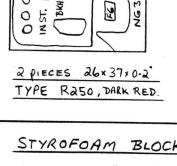
POXY: Somute epoxy	RAW MATERIALS		
Simulate pepacy	720.0		0.40
	5 minute epoxy 1 qt. Epoxy 15 ga	kit Nits of Safe-T-Poxy)*	AN509-10R7 (9) AN526-832-14 (2) AN509-10R8 (2) AN525-10R8 (26)
AMS99-B88 (2) WASHERS (2)	<u>Urethane</u> Foam 21b/ft ³		AN509-10R14 (12) AN525-10R12 (8) AN509-10R28 (4) AN525-10R16 (1) AN509-10R30 (8) AN525-10R24 (1)
SECONDAIN Process Pr	(light blue or white)		AN509-416R18 (2) AN509-8R8 (10) [WASHERS] NUTS] AN960-10L (200)
Anside	PV-core type R250 (dark red, 16 lb/ft ³)	-	MS21042-4 (70) AN960-416L (150) AN310-3 (2) AN960-416 (8)
Clight red 6 lb/ft3 2 pcs. 0.25" x 35" x 44"	(light red, 6 lb/ft ³)	1 pc. 1.0" x 6" x 10"	AN316-4 (2) AN960-8161 (10)
Align Alig	(light red 6 lb/ft ³)	2 pcs. 0.25" x 35" x 44"	AN365-524 (1) AN970-3 (28) AN363-624 (2) AN970-4 (5)
UND tape .035" x 3" Roll 120 yards UND cloth .009" x 38" (7715) 150 yards BID cloth .009" x 38" (7715) 150 yards BID cloth .013" x 38" (7725) 90 yards SID cloth .013" x 38" (100 cloth .010" x 1000-3 sid clo	(dark blue 3 lb/ft ³)	5 pcs. 0.8" x 24" x 48"	AN363-820 (6) AN970-5 (2) Phenolic - ½" O.D. x 3/16" I.D.
UND cloth .009" x 38" (7715) 150 yards BID cloth .0013" x 38" (7725) 90 yards BID cloth .013" x 38" (7725) 90 yards BID cloth .013" x 38" (7725) 90 yards FILLER MATERIAL: Flocked cotton 3M B23, 500 glass balloons (micro) 4 gallons. WOOD: 3 pieces 1" x 0.7", 104" long - Spruce 2 pieces 0.7" x 0.4", 60" long - Spruce 3 pieces 0.7" x 0.7" triangle, 105"long - Spruce 4 piece 0.7" x 0.7" triangle, 48" long - Spruce 5 piece 1" x 1", 12" long - Spruce 6 piece 1" x 1", 12" long - Spruce 7 piece 1" x 1", 12" long - Spruce 8 piece 1" x 1", 12" long - Spruce 9 piece 1" x 1", 12" long - Spruce 1 piece 1" x 1", 1			(NUT PLATES) [COTTER PINS]
Flocked cotton 3M B23, 500 glass balloons (micro) 4 gallons.	UND cloth .009" x 38" BID cloth .013" x 38"	(7715) 150 yards	K1000-3 (22) AN380-2-2 (4) K1000-4 (9) AN380-2-3 (4) K1000-08 (10)
WOOD: 3 pieces 1" x 0.7", 104" long - Spruce Solid aluminum. AN4Z6AD3-3 (100)	Flocked cotton		1/8" pop-type AVEX 1601-0410 (100) AVEX 1604-0412 (100)
3 pieces 1" x 0.7", 104" long - Spruce 2 pieces 0.7" x 0.4", 60" long - Spruce 2 pieces 0.7" x 0.4", 60" long - Spruce 3 pieces 0.7" x 0.7" triangle, 105"long - Spruce AN470AD3-7 (10) canopy 1 piece 0.7" x 0.7" triangle, 48" long - Spruce AN470AD4-5 (10) elevator 1 piece 1" x 1", 12" long - Spruce AN470AD4-10 (40) controlsystem ALUMINUM EXTRUSIONS: \[\begin{array}{cccccccccccccccccccccccccccccccccccc	WOOD:	200	Cherry MSP 43 (100)
CABLE AND CABLE HARDWARE CABLE AND CABLE HAR	2 pieces 0.7" x 0.0 2 pieces 0.7" x 0.1 1 piece 0.7" x 0.1 1 piece 1" x 1",	4", 60" long - Spruce 7" triangle, 105"long - Spruce 7" triangle, 48" long - Spruce 12" long - Spruce	Solid aluminum. AN426AD3-3 (50) (for nutplates) AN426AD3-4 (50) (for nutplates) AN470AD3-7 (10) canopy AN470AD4-5 (10) elevator
2024T3 90° angle 1.5" x 1.5" x 0.125 thick 2024T3 90° angle 1.5" x 1.5" x 0.125 thick 2024T3 90° angle 1.5" x 1.5" x 0.125 thick 2024T3 Rect. Bar 2" x 0.125 thick 2024T3 Rect. Bar 2" x 0.25" 30" long 3/32" 7 x 19 stainless cable 4N 100-3 thimble 50 feet (30) SHEET METAL: 18-2-G sleeve (20) Stainless Steel type 301 or 302 .016 thick 24" x 30"	ALUMINUM EXTRUSIONS:		
SHEET METAL: 18-1-C sleeve (20) Stainless Steel type 301 or 302 .016 thick 24" x 30" (30) 18-1-C sleeve (20) 18-2-G sleeve (15)	2024T3 90° angle 1" x 1" x 2024T3 90° angle 1.5" x 1.5 2024T3 Rect. Bar 2" x 0.125	0.125 thick 60" long** 5" x 0.125 thick 6" long 60" long	1/16" 7 x 7 stainless cable 50 feet 3/32" 7 x 19 stainless cable 50 feet
Stainless Steel type 301 or 302 .016 thick 24" x 30"		33 13.19	18-1-C sleeve (20)
2024T3 aluminum .016 thick 3" x 10" 6061-0 soft aluminum .020 thick 20" x 24" 2024T3 aluminum .025 thick 12" x 8" 2024T3 aluminum .032 thick 1.5" x 8" 6061 T6 aluminum .032 thick 8" x 10" 2024T3 aluminum .032 thick 8" x 10" 2024T3 aluminum .063 thick 6" x 8" Polyethelyne Tee #0715-153 (1) 2024T3 aluminum .063 thick 6" x 8" Polyethelyne Adaptor #0700-153 (2)	Stainless Steel type 301 or 2024T3 aluminum .016 thick 6061-0 soft aluminum .020 2024T3 aluminum .025 thick 2024T3 aluminum .032 thick 6061 T6 aluminum .032 thick	x 3" x 10" thick 20" x 24" x 12" x 8" 1.5" x 8" ck 8" x 10"	PLUMBING AND CONDUITS Brass Elbow #269-P (4) Polyethelyne Tee #0715-153 (1) Polyethelyne Adaptor #0700-153 (2)
Tygon Tube 3/8 0.D. x ½ I.D. 4 feet METAL TUBING AND ROD: Nylaflow Tube 3/16 0.D. x .025 wall 60 feet	METAL TUBING AND ROD:		
6061T6 aluminum 1.25"0.D. x .035 W - one 62"long, one 80" long 6061T6 aluminum 1" 0.D. x .035 W - 10" long 6061T6 aluminum 0.75" 0.D. x .058 W - three pieces, 6ft long 2024T3 aluminum 0.5" 0.D. x .035W - two pieces, 6ft long 100-0 aluminum 0.375" 0.D. x .035W - 26 feet (oR 3co3-0) 10c-0 aluminum 0.25 0.D. x .035W - 14 feet (oR 3co3-0) 4130 N Steel 0.625 0.D. x .049W - 3 feet Cold-rolled steel 0.375 Dia. Rod - 4 pieces, 3 ft long. Steel piano wire (hard) 3/32" Dia 1 piece 12" long WHEELS/BRAKES/TIRES (1 set) Cleveland 500 x 5 wheels/brakes (2) Tires Goodyear 3.40 x 5 6-ply industrial rib (2) Tubes for 3.40 x 5 tires (2) GERPES 049 BRAKE MASTER CYLAPELS	606176 aluminum 1" 0,D. x . 606176 aluminum 0.75" 0.D. x 202473 aluminum 0.5" 0.D. x 1100-0 aluminum 0.375" 0.D. 110c-0 aluminum 0.25 0.D. x 4130 N Steel 0.625 0.D. x Cold-rolled steel 0.375 Dia	035 W - 10" long x .058W - three pieces, 6ft long c .035W - two pieces, 6ft long x .035W - 26 feet (oR 3co3-o) c .035W - 14 feet (oR 3co3-o) .049W - 3 feet L. Rod - 4 pieces 3 ft long	(1 set) Cleveland 500 x 5 wheels/brakes (2) Tires Goodyear 3.40 x 5 6-ply industrial rib (2) Tubes for 3.40 x 5 tires
AIRFRAME BOLTS			MISCELLANEOUS
3/16" Bolts 1/4" Bolts 5/16" Bolts (4) Clevis Pin AN393-9 AN 3-4A (2) AN4-5A (9) AN5-41A (1) (3) Clevis Pin AN393-19 AN3-5A (14) AN4-7A (6) (7) Safety pin AN416-1 AN3-6A (18) AN4-10A (7) 3/8" Bolts (10) Rodend HEIM HM-3 AN3-7A (25) AN4-11A (2) AN6-80A (2) (2) Rodend HEIM HM-4 AN3-10A (5) AN4-13A (2) (2) Rodend HEIM F34-14 or FAFNIR REB3N AN3-11 (16) AN4-15A (9) (2) Rodend FAFNIR REB3N (2) ROMA-12A (1) AN4-16A (26) (2) Rodend FAFNIR REB3N (2) ROMA-13A (2) (2) Rodend FAFNIR REB3N (3) Universal MS20271-B10 AN3-15A (2) AN4-24A (8) (1) Bearing Boston FB-1013-8 Bronze AN3-16A (2) AN4-26A (1) (3) ATRON STOCK Fibrellass F/16 x 0.28 m 2.4" long	3/16" Bolts	(9) AN5-41A (1) (6) 3/8" Bolts (2) AN6-80A (2) (2) (26) (26) (3) (8) (1) (1) (1)	(4) Clevis Pin AN393-9 (3) Clevis Pin AN393-19 (7) Safety pin AN416-1 (10) Rodend HEIM HM-3 (2) Rodend HEIM HM-4 (2) Rodend HEIM F34-14 or FAFNIR REB3N (2) Rodend FAFNIR RE4MG or HM-6 with insert (2) Pulley AN210-2A (3) Universal MS20271-B10 (1) Bearing Boston FB-1013-8 Bronze (1) Latch Hartwell H-5000-2 FLUSH (3) Arrow Stock Fibernlass 5/16 x 028 m 24*long
AN3-7 (1) AN4-20 (2) 3" Hinge MS 20257-P2	AN3-7 (1) AN4-20	(2)	110 20207-12
for the 15 gal Safe-T-Poxy RAES (2) Spring .35 0.D. x .06 wire, compression \(\frac{1}{2}\) long 30" Spring .35 0.D. x .05 wire, compression \(\frac{1}{2}\) long (1) Phenolic \(\frac{1}{2}\) Spring .35 0.D. x .05 wire, tension(several pcs ok)	for the 15 gal Safe-T-Poxy		(2) Spring .35 0.D. x .06 wire, compression ½" long 30" Spring .35 0.D. x .05 wire, tension(several pcs ok) (1) Phenolic ½" Sheet 4" x 12"
ELECTRICAL Spring .35 OD x .06 wire, 10" long. Tension landing brake	1		ELECTRICAL



2 PIECES 35×44× /4 TYPE RIOD . RED.

CS4 RIGHT

1 PIECE 6 × 10 × 1 TYPE RIOD, RED.



STYROFOAM BLOCKS 7"× 14"× 41" 5 PIECES 10 PIECES 7" × 14"× 64" FOR CUTTING PATTERNS SEE PAGES, 10-1 + 19-11.

NOSE FLOOR	R	۸	Jose	£	FL	00	R	1	ACH	
NOSE NOSE FRONT STANDSE CANOPY 3										
NOSE SIDE	NOSE			LE STRAKE	LE STANKE	LE STRAKE	LE STRAKE	LE STANKE		
LOD DOSE COVER					MAIN GEAR COVER					
WING STRAKE FAIRING.										

4 PIECES 24" × 48" × 2" URETHANE, TAN OR GREEN.

CS2 LEFT	3 m	CS2 CENTER		FUSELAGE
CS2 RIGHT	47.0	CS3 CENTER	LANDING	SIDES - HET
CS3 LEFT	MAPI		BRAKE	MAIN GEAR.
CS3 RIGHT		CANOPY RAILS CANOPY RAILS		AFT CANOPY

3 PIECES 24×48×1" URETHANE, TAN OR GREEN.

MATERIALS LIST BY CHAPTER

The materials listed here are the same as those included in the B.O.M. Summary, they are arranged by chapter in the manufacturing manual rather than by distributor. This list does not include tools, filler materials, (flox, microspheres) or jigging materials. You will find this list handy to assure you have all appropriate parts before starting a major job, and will help you keep track of hardware

Chapter 3: Education Prefab parts: Hardware: Glass: 1.1 yd BID, .1 yd UND 0.1 gallons 1 board ft urethane (tan) Epoxy: Foam:

Chapter 4: Fuselage Bulkheads

Prefab Parts: None Hardware: 6 AN509-10R10 Screws

Prefab Parts: None
Hardware: 6 AN509-10R10 Screws
Glass: 3 yds. UND
5 yds. BID
Epoxy: 0.5 gallons
Foam: 8 sq.ft of 0.8" thick type R45 dark blue
9 sq. ft of0.2" thick type R250 dark red
Wood: 1 pc 24" x 30" ½ " thick 5-ply birch plywood
Metals: 1 pc 24" x 30" x 016 stainless steel (301)
Misc: 24" x 30" 970-F .040 thick fiberfrax

Chapter 5: Fuselage Sides

Chapter 6: Fuselage Assembly

Prefab Parts: NB - nose wheel box cover Hardware: None Glass: 6 yd BID Epoxy: 0.4 gallons Foam: 16 sq. ft 1.6" thick type R45 dark blue

Chapter 7: Fuselage exterior.

Glass: 14 yd UND Epoxy: 0.85 gallons

Chapter 8: Roll over structure and Seat Belts

Prefab Parts: (1) STEP
(2) Seat Belt/Shoulder Harness assy.

Hardware: (6) AN525-416R16 Screws
(2) AN509-416R18 Screws
(2) AN509-416R18 Screws
(4) AN4-5A bolts
(2) AN4-1DA Bolts
(16) AN960-416L Washers
(2) AN970-4 Washers
(16) MS21042-4 Nuts

(10) M321042-4 Nucs
Glass: 2 yd BID
Epoxy: .1 gallons
Foam: 4 sq. ft .35" thick type R45 dark blue
Metal: 8" of 1/8" x 1" x 1" 2024T3 Alum. Angle.
Wood: Scraps of \(\frac{1}{2} \)" plywood from firewall.

Chapter 9: Main Landing Gear and Landing brake

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Chapter 9: Main Landing Gear and Landing brake

Prefab Parts: MG1-L 'S' glass Main gear strut

1 set of Cleveland 500 x 5 wheels/brakes
(2) Goodyear tires, 3.40 x 5, 6 ply industrial rib
(2) Axles for Cleveland 500 x 5 wheels
(1) LB-12345 Weldment (landing brake)
(1) LB-6 Spacer
(1) LB-10 Aluminum arm
(1) LB-13 Spring Clip
(1) LB-13 IST Brackets
(2) LB-18 Brackets
(1) LB-21 Threaded Rod
(2) IO'' SPRINES

Hardware: (4) AN3-7A Bolts
(5) AN4-5A Bolts
(1) AN4-2AB Bolts
(1) AN4-2AB Bolts
(1) AN4-2AB Bolts
(2) AN525-10R10 Screws
(25) AN525-10R10 Screws
(26) AN525-10R10 Screws
(24) AN960-10L Washers
(24) AN960-10L Washers
(10) MS21042-4 Nuts
(10) MS21042-4 Nuts
(10) MS21042-4 Nuts
(10) MS21042-4 Nuts
(1) K1000-4 Nutplate
(2) 90° Nyloseal #269P Brass Fittings
(2) AN100-3 Thimbles
(3) 18-1-C Nicopress sleeve
(2) AN316-4 Nuts
Glass: 5 yd BID, 10 yd UND
Epoxy: 0.8 gallons
Foam: Urethane 24 x 24 x 1
Metal: 16 sq. inches of .063 2024T3 aluminum
Wood: Scraps of i" plywood
Misc: 12 feet 3/16" x .025 wall Nylaflow tubing
8" of MS20001-P6 hinge
4 ft of 1/16" 7 x 7 cable
Phenolic i" x 2" x 4"
(2) HEIM F34-14 or FAFNIR REB3N
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Chapter 10: Canard Construction
    Prefab Parts: (2) CLT, Canard Lift tab
Hardware: (6) AN4-7A Bolts
(6) AN960-416L Washers
(6) K1000-4 Nutplates (12) AN4-26AD3-4 Rivers
Glass: 17 yd UND, 4yd BID
Epoxy: 1 gallon
Foam: Part of (2) 7 x 14 x 41 styrofoam
part of (2) 7 x 14 x 64 styrofoam
1" x 6" x 10" type R100 PV
Metal: 9 sq. inches of 1/8" 2024-T3 aluminum
 Chapter 11: Elevators
    Chapter 12: Canard Installation
 Prefab Parts: (2) CNL Aluminum Bushings
(2) CN2 Steel Bushings
Hardware: (2)AN3 20A Bolts
(2)AN4-13 A Bolts
(2)AN960-416L Washers
(2)AN970-4 Washers
(2)K1000-4 Nut plates (4)AN426AD3-3 ENERS
Epoxy: Minimal amount
Chapter 13: Nose and Nose Gear
                                            (4) AN426AD3-3 Rivets
(10) AN509 8R8 Screws
(10) K1000-08 Nut plates
(20) AN426AD3-4 Rivet
     (20) AN4Z6AD3-4 KIVET

Glass: 7 yd BID

Epoxy: ½ gallon

Foam: 10 sq. ft. 2" thick urethane foam

4.5 sq. ft 0.2" thick type RZ50 dark red

Metal: 2.5 x 3. x 1/8" 2024T3 aluminum sheet

4 ft of ½" 0.D. x .035 wall 5052-0 aluminum

1 pc. 8" x 10" of .032 6061T6 alum. tube.

Misc: 4 ft of 3/8" 0.D. x ½" I.D. tygon tubing

(1) 0715-153 tee

(2) 0700-153 adaptors
(2) HM-6 rodends (RE4M6)
       Chapter 14: Center Section Spar

      Chapter 14: Center Section Spar

      Prefab Parts: (2) SH1 Aluminum Straps

      Hardwar: (4) AN4-15A Bolts

      (10) AN4-16A Bolts

      (32) AN960-416L Washers

      (16) MS21042-4 Nuts

      (2) AN4-17A Bolts

      Glass: 1 yd UND, 18 yds BID

      50 yds 3" wide x .035 UND tape

      Epoxy: 2 gallons

      Foam: 10 sq. ft. ½" thick, type R100 red foam

      10 sq. ft. ½" thick urethane foam

      Metal: 3ft of 1.8" x 1" x 1" 2024-T3 alum. angle.

      30" of 1/8" x 2" 2024-T3 alum. bar

      12" of ½" x 2" 2024-T3 alum. bar

      Wood: 1 ft 1 x 1 spruce
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(35) MS21042-3 Nuts
(2) 18-1-C Sleeves
(2) AN100-3 Thimbles

Glass: 7 yd BID, 2 yd. UND

Epoxy: 0.8 gallons
Foam: 1" x 2" urethane (see page 2-3)

Misc: 16" MS20001-P6 Hinge
(2) 4" long .35 x .05 steel springs
10" 3/32" steel piano wire.

Metal: 1½" x 5" x .032 2024-T3 Alum
8" of 1/8" x 1" x 1" 2024-T3 Alum.
8" of 1/8" x 1" x 1" 2024-T3 Alum.
misc: 1 ft 1/16 x 7 x 7 cable
3 pcs. of 5/16 0.D. x .028 wall fiberglass arrow
16" of MS20001-P6 Hinge
2½" MS20257-P2 Hinge
Hartwell H-5000-2 flush latch
                              Chapter 15: Firewall and accessories
      Prefab Parts:
                                                                                                                                                                                                   Chapter 19: Wings Ailerons/Wing Attach
 Chapter 16: Control System
                                                                                                                                                                                                  Chapter 20: Winglets and Rudders
                                                                                                                                                                                                  (2) FT 18 fuel cap assembly
Hardware: None
Glass: 16 yds UND 11 yds. BID
Epoxy: 1.9 gallons
Foam: 6.3 sheets 32 x 48 x .35 type R45 dark blue
(see page 2-3)
Metal: 2 sq. inches 1/8" 2024-T3 aluminum
26 ft 3/8" 0.D. x .035 wall 1100-0 alum. tut
10 ft ½" 0.D. x .035 wall 1100-0 alum. tube
                                                                                                                                                                                                  NOTE! Fuel system plumbing and hardware, including engine components, hose lengths, pressure gauge, etc. can vary depending on engine installation. See plans and order components to suit.
                                                                                                                                                                                                    Chapter 22: Electrical
                                                                                                                                                                                                   \ensuremath{\mathsf{NOTE!}} Due to the various options, this bill of materials does not include electrical items. Order to suit
                                                                                                                                                                                                  Chapter 23: Engine Installation
                                                                                                                                                                                                  Prefab Parts: (1) CI - Cowl inlet
(1 ea) CCT and CCB - Continental Cowl
OR
 Chapter 17: Pitch trim and Roll trim
                                                                                                                                                                                                                                       (1 ea) LCT and LCB - Lycoming Cowl
                                                                                                                                                                                                  Glass: 3 yd. BID
Epoxy: 0.2 gallon
Metal: 20" x 24" x .020 soft alum. 6061-0
                                                                                                                                                                                                  NOTE! Due to variations with different engine models,
hardware and components are not listed. Consult
Chapter 23 and Section II. Determine your speci
needs, then order.
                                                                                                                                                                                                  Chapter 24: Covers - Fairings - Consoles
                                                                                                                                                                                                  Prefab Parts: None
Hardware: None
Glass: 2 yd BID
Epoxy: 0.3 gallons
Foam: 2" x 24" x 30" Urethane
.35 thick type R45 dark blue foam(see page 2-3)
Metal: 5" x 7" x .025 2024-T3 alum.
                                                                                                                                                                                                 Chapter 25: Finishing
                                                                                                                                                                                                Chapter 25: Finishing

Sandpapers: 9" x 11" sheets, Silicon Carbide or aluminum Oxide types
(50 sheets) Coarse - 36, 40, or 60 grit
(100 sheets) Meduim - 100-grit wet/dry
(100 sheets) Fine - 220-grit wet/dry
(100 sheets) Fine - 320-grit wet/dry
Filler Materials: Epoxy and Micro (as required)
(6 quarts) Feather Fill (with catalyst)

Primer: (3 gallons) Dupont 100S, 70S or 3011S laquer primer surfacer.
(one tube) Spot Putty
(as req'd) Stitts Micro Putty*
(one tube) Silicone Bath tub Calk

Paint: Acrylic laquer or Acrylic enamel(Dupont)
Chapter 18: Canopy

Prefab Parts: (1) Long-EZ Plexiglass canopy bubble (1) C1-L Handle (2) C2-L Arms (2) C3 Lugs (1) C4 Block (2) C5 Rods (2) C6 Tubes (1) SC1 Catch (1) C21 Handle (2) CS13 Spacer

Hardware: (8) AN509-10R30 Screws (8) AN509-10R30 Screws (8) AN509-10R10 Screws (3) AN525-10R10 Screws (1) AN525-10R12 Screws (1) AN525-10R12 Screws (1) AN525-10R16 Screws (1) AN3-10 A Bolts (3) AN3-7A Bolts (3) AN3-7A Bolts (2) AN3-4A Bolts (2) AN3-6A Bolts (1) AN3-12A Bolts (2) AN3-6A Bolts (3) AN3-12A Bolts (4) AN470AD3-7 Rivets (53) AN960-10L Washers (6) AN970-3 Washers
  Chapter 18: Canopy
                                                                                                                                                                                                         These materials are available through distributors, the remainder are available locally in most areas through auto parts suppliers
                                                                                                                                                                                                 NOTE! Due to the wide variance of preferences finishing materials are not supplied with the basic kit.
                                                                                                                                                                                                 Chapter 26: Upnoistry
                                                                                                                                                                                                  Upholstry kit consists of:
(2) Custom-fit suitcases
(2) Custom-fit seat cushions
(2) Custom head rests.
                                                                                                                                        PAGE 2-5
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LAST PG, CHAPZ.