

Amateur-Built Fabrication and Assembly Checklist (2009)

(Fixed Wing)

Name(s)	Cub Crafters
1918 South 16th Avenue	
Address:	Yakima, WA 98903
Aircraft Model:	Carbon Cub EX-3 CCK-2000
Date:	4/18/2019
Remarks:	Micheal Sloat Desk Audit
This evaluation pertains to and is defined by: Cub Crafters Master Document List for the Carbon Cub EX-3 Kit Model CCK-2000 Kit, Revision 1.0 Dated: 12/27/2018	

NOTE: This checklist is only applicable to fixed wing aircraft. Evaluation of other types of aircraft (i.e., rotorcraft, balloons, lighter than air) will not be accomplished with this form.

NOTE: This checklist is invalid for and will not be used to evaluate an altered or modified type certificated aircraft with the intent to issue an Experimental Amateur-built Airworthiness Certificate. Such action violates FAA policy and DOES NOT meet the intent of § 21.191(g).

NOTE: Enter "N/A" in any box where a listed task is not applicable to the particular aircraft being evaluated. Use the "Add item" boxes at the end of each section to add applicable unlisted tasks and award credit.

FABRICATION AND ASSEMBLY TASKS		A	B	C	D
		Mfr Kit/Part/ Component	Commercial Assistance	Am-Builder Assembly	Am-Builder Fabrication
Task #	Fuselage – 24 Listed Tasks				
F1	1 Fabricate Longitudinal Members	0.8			0.2
F2	Fabricate Composite Cores or Shells, Skins	N/A			
F3	1 Fabricate Bulkheads or Cross members	0.8			0.2
F4	1 Fabricate Control Yokes/Sticks	0.8			0.2
F5	1 Assemble Control Yokes/Sticks	0		1.0	
F6	1 Fabricate Flt Control Push Pull Tubes/Cables	0.8			0.2
F7	1 Assemble Flt Control Push Pull Tubes/Cables	0		1.0	
F8	1 Assemble Fuselage Basic Structure	1		0.0	
F9	1 Fabricate Brackets and Fittings	1			0.0
F10	1 Assemble Brackets and Fittings	0.9		0.1	
F11	1 Fabricate Cables, Wire, and Lines	0.9			0.1
F12	1 Assemble Cables, Wire, and Lines	0		1.0	
F13	1 Fabricate Fuselage Fuel System Components	1			0.0
F14	1 Assemble Fuselage Fuel System Components	0		1.0	
F15	1 Fabricate Fuselage Covering or Skin	0.2			0.8
F16	1 Assemble Fuselage Covering or Skin	0		1.0	
F17	1 Fabricate Windshield	0.5			0.5
F18	1 Assemble Windshield to Fuselage	0		1.0	
F19	1 Fabricate Windows	0.7			0.3
F20	1 Assemble Windows to Fuselage	0		1.0	
F21	1 Fabricate Doors/Canopy	0.9			0.1
F22	1 Assemble Doors/Canopy to Fuselage	0		1.0	
F23	Fabricate Mast and Strut Assembly	N/A			
F24	Assemble Mast and Strut Assembly	N/A			

FABRICATION AND ASSEMBLY TASKS			A	B	C	D
			Mfr Kit/Part/	Commercial	Am-Builder	Am-Builder
			Component	Assistance	Assembly	Fabrication
F25	1	Add item: Fabricate Rudder Pedals	1			0.0
F26	1	Add item: Assemble Rudder Pedals	0		1.0	
F27		Add item:				
F28		Add item:				
F29		Add item:				
F30		Add item:				
Total # of Fuselage Tasks		<u>Fuselage Subtotal</u>	Mfr Kit/Part/Component	Commercial Assistance	Am-Builder Assembly	Am-Builder Fabrication
23		<u>Fuselage Total Points</u> ►	11.3	0.0	9.1	2.6

Fuselage Comments:
F25 and F26 added items were inadvertently omitted from this checklist revision.
F13 Includes fuel selector valve, fuel indication and drain valve.
F15 Includes Boot Cowl.

FABRICATION AND ASSEMBLY TASKS			A	B	C	D
			Mfr Kit/Part/Component	Commercial Assistance	Am-Builder Assembly	Am-Builder Fabrication
			A	B	C	D
FABRICATION AND ASSEMBLY TASKS			Mfr Kit/Part/Component	Commercial Assistance	Am-Builder Assembly	Am-Builder Fabrication
Task #	Wings – 51 Listed Tasks					
W1	1	Fabricate Wing Spars	0.8			0.2
W2	1	Assemble Wing Spars to Wing	0		1.0	
W3	1	Fabricate Wing Ribs or Cores	0.8			0.2
W4	1	Assemble Wing Ribs or Cores to Wing	0		1.0	
W5		Fabricate Composite Cores	N/A			
W6		Assemble Composite Cores to Wing	N/A			
W7	1	Fabricate Wing Leading and Trailing Edges	0.8			0.2
W8	1	Assemble Wing Leading & Trailing Edges to Wing	0		1.0	
W9	1	Fabricate Drag/Anti-drag Truss Members	1			0.0
W10	1	Assemble Drag/Anti-drag Truss Members to Wing	0		1.0	
W11	1	Fabricate Wing Brackets and Fittings	0.8			0.2
W12	1	Assemble Wing Brackets and Fittings to Wing	0		1.0	
W13	1	Fabricate Wing Tips	0.8			0.2
W14	1	Assemble Wing Tips to Wings	0		1.0	
W15	1	Fabricate Special Tools or Fixtures	0.8			0.2
W16	1	Fabricate Aileron Spars	0.8			0.2
W17	1	Fabricate Aileron Ribs or Cores	0.8			0.2
W18		Assemble Aileron Ribs or Cores to Aileron	N/A			
W19	1	Assemble Aileron Primary Structure	1		0.0	
W20	1	Fabricate Aileron Leading and Trailing Edges	1			0.0
W21	1	Assemble Aileron Leading and Trailing Edges	1		0.0	
W22	1	Fabricate Aileron Brackets and Fittings	0.8			0.2
W23	1	Assemble Aileron Brackets & Fittings to Aileron	0		1.0	
W24	1	Fabricate Aileron Covering or Skin	1			0.0
W25	1	Assemble Aileron Covering or Skin to Aileron	1		0.0	
W26		Fabricate Aileron Roll Trim	N/A			
W27		Assemble Aileron Trim Tab/Roll Trim to Aileron	N/A			
W28	1	Assemble Aileron to Wing	0		1.0	
W29	1	Fabricate Flap Spars	0.5			0.5
W30		Assemble Flap Spars to Flap	N/A			
W31	1	Fabricate Flap Ribs or Cores	0.5			0.5
W32		Assemble Flap Ribs or Cores to Flap	N/A			
W33	1	Assemble Flap Primary Structure	1		0.0	
W34	1	Fabricate Flap Leading and Trailing Edges	1			0.0
W35	1	Assemble Flap Brackets and Fittings to Flap	0		1.0	
W36	1	Fabricate Flap Covering or Skin	1			0.0
W37	1	Assemble Flap Covering or Skin to Flap	1		0.0	
W38	1	Assemble Flaps to Wing	0		1.0	
W39		Fabricate Wing External Lighting Components	N/A			
W40		Assemble Wing Ext Lighting Components to Wing	N/A			
W41	1	Assemble Basic Wing Structure	0		1.0	
W42		Fabricate Wing Fuel System Components	N/A			

FABRICATION AND ASSEMBLY TASKS		A	B	C	D	
		Mfr Kit/Part/	Commercial	Am-Builder	Am-Builder	
		Component	Assistance	Assembly	Fabrication	
W43		Assemble Wing Fuel System Components to Wing	N/A			
W44	1	Fabricate Cables Wires and Lines	0.7			0.3
W45	1	Assemble Cables Wires and Lines to Wing	0		1.0	
W46	1	Fabricate Wing Covering or Skin	0			1.0
W47	1	Assemble Wing Covering or Skin to Wing	0		1.0	
W48	1	Fabricate Wing Struts/Wires	1			0.0
W49	1	Fabricate Fuel Tank	1			0.0
W50	1	Assemble Fuel Tank to Wing	0		1.0	
W51		Calibrate Fuel System Components	N/A			
W52	1	Add item: Fabricate Flap Bracket and Fittings	0.8			0.2
W53	1	Add item: Assemble Flap Leading and Trailing Edges	0		1.0	
W54	1	Add item: Assemble Wing Struts/Wires to Wing	0.9		0.1	
W55	1	Add item: Assemble Wing to Next Level Structure	0		1	
W56	1	Add item: Fabricate Vortex Generators	0.8			0.2
W57	1	Add item: Assemble Vortex Generators	0		1	
Total # of Wing Tasks		<u>Wings Subtotal</u>	Mfr Kit/Part/Component	Commercial Assistance	Am-Builder Assembly	Am-Builder Fabrication
45		<u>Wings Total Points ►</u>	23.4	0	17.1	4.5

Wing Comments:

W19 includes credit for W18

W33 includes credit for W30 and W32

W52, W53 and W54 added items were inadvertently omitted from this checklist revision.

FABRICATION AND ASSEMBLY TASKS			A	B	C	D
			Mfr Kit/Part/ Component	Commercial Assistance	Am-Builder Assembly	Am-Builder Fabrication
FABRICATION AND ASSEMBLY TASKS			A	B	C	D
			Mfr Kit/Part/ Component	Commercial Assistance	Am-Builder Assembly	Am-Builder Fabrication
Task #	Empennage – 57 Listed Tasks					
E1	1	Fabricate Horizontal Stabilizer Spars	1			0.0
E2		Assemble Horizontal Stabilizer Spar(s) to Stabilizer	N/A			
E3	1	Fabricate Horizontal Stabilizer Ribs or Cores	1			0.0
E4		Assemble Horizontal Stabilizer Ribs or Cores to Stabilizer	N/A			
E5		Fabricate Horizontal Stabilizer Leading and Trailing Edge				
E6		Assemble Horizontal Stabilizer Leading and Trailing Edges to Stabilizer				
E7		Fabricate Horizontal Stabilizer Brackets & Fittings	N/A			
E8		Assemble Horizontal Stabilizer Brackets and Fittings to Stabilizer	N/A			
E9	1	Assemble Horizontal Stabilizer Primary Structure	0		1.0	
E10		Fabricate Horizontal Stabilizer Lead/Trailing Edges	N/A			
E11		Assemble Horizontal Stabilizer Lead/Trailing Edges to Stabilizer	N/A			
E12	1	Fabricate Horizontal Stabilizer Cables, Wires and Lines	1			0.0
E13	1	Assemble Horizontal Stabilizer Cables, Wires and Lines to Stabilizer	0		1.0	
E14	1	Fabricate Horizontal Stabilizer Empennage Covering or Skin	0			1.0
E15	1	Assemble Horizontal Stabilizer Empennage Covering or Skin to Stabilizer	0		1.0	
E16	1	Assemble Horizontal Stabilizer Structure to Fuselage	0		1.0	
E17	1	Fabricate Elevator Spars	1			0.0
E18		Assemble Elevator Spars to Elevator	N/A			
E19	1	Fabricate Elevator Ribs Cores	1			0.0
E20		Assemble Elevator Ribs Cores to Elevator	N/A			
E21	1	Assemble Elevator Primary Structure	0		1.0	
E22		Fabricate Elevator Leading and Trailing Edge	N/A			
E23		Assemble Elevator Leading and Trailing Edges to Elevator	N/A			
E24	1	Fabricate Elevator Brackets and Fittings	0.9			0.1
E25	1	Assemble Elevator Brackets and fittings to Elevator	0		1.0	
E26	1	Fabricate Elevator Covering or Skins	0.2			0.8
E27	1	Assemble Elevator Covering or Skins to Elevator	0		1.0	
E28	1	Fabricate Elevator Trim Tab	0.8			0.2
E29	1	Assemble Elevator Trim Tab to Elevator	0		1.0	
E30		Fabricate Special Tools or Fixtures	N/A			
E31	1	Fabricate Vertical Stabilizer Spars	1			0.0
E32	1	Assemble Vertical Stabilizer Spar to the Vertical Stabilizer	0		1.0	
E33	1	Fabricate Vertical Stabilizer Ribs Cores	1			0.0
E34	1	Assemble Ribs Cores to Vertical Stabilizer	0		1.0	
E35		Fabricate Vertical Stabilizer Leading/Trailing Edges	N/A			
E36		Assemble Leading and Trailing Edges to Vertical Stabilizer	N/A			

FABRICATION AND ASSEMBLY TASKS		A	B	C	D
		Mfr Kit/Part/	Commercial	Am-Builder	Am-Builder
		Component	Assistance	Assembly	Fabrication
E37	Fabricate Vertical Stabilizer Brackets and Fittings	N/A			
E38	Assemble Brackets and Fittings to Vertical Stabilizer	N/A			
E39	Fabricate Vertical Stabilizer Cables, Wires, Lines	N/A			
E40	Assemble Cables, Wires, Lines to Vertical Stabilizer	N/A			
E41	1 Fabricate Vertical Stabilizer Empennage Covering or Skin	0.2			0.8
E42	1 Assemble Vertical Stabilizer Empennage Covering or Skin to Vertical Stabilizer	0		1.0	
E43	1 Assemble Vertical Stabilizer Structure to Fuselage	0		1.0	
E44	1 Fabricate Rudder Spar	1			0.0
E45	Assemble Rudder Spar to Rudder	N/A			
E46	1 Fabricate Rudder Ribs or Cores	1			0.0
E47	Assemble Rudder Ribs or Cores to Rudder	N/A			
E48	1 Assemble Rudder Structure	1		0.0	
E49	Fabricate Rudder Leading and Trailing Edge	N/A			
E50	Assemble Rudder Leading and Trailing Edge to Rudder	N/A			
E51	Fabricate Rudder Brackets and Fittings	N/A			
E52	Assemble Rudder Brackets and Fittings to Rudder	N/A			
E53	1 Fabricate Rudder Covering or Skin	0.2			0.8
E54	1 Assemble Rudder Covering or Skin to Rudder	0		1.0	
E55	1 Fabricate Rudder Trim Tab	0.5			0.5
E56	1 Assemble Rudder Trim Tab to Rudder	0		1.0	
E57	1 Assemble Rudder to Vertical Stabilizer	0		1.0	
E58	1 Add item: Assemble Elevator to Horizontal Stabilizer	0		1.0	
E59	1 Add item: Assemble Vertical Stabilizer Structure	1		0.0	
E60	Add item:				
E61	Add item:				
Total # of Empennage Tasks		Mfr Kit/Part/Component	Commercial Assistance	Am-Builder Assembly	Am-Builder Fabrication
34			0	16	4.2
<u>Empennage Subtotal</u>					
<u>Empennage Total Points</u> ▶		13.8	0	16	4.2

Empennage Comments:

5 and E6 are duplicate items and therefore were not scored. Credit given in items E10 and E11.

E9: Assemble Horiz Stab, Credit includes, Tasks E2, E4, and E8

E21: Assemble Elevator Structure Credit includes, Tasks E18 and E20,

E24 and E25 includes all brackets for empennage reference E7,E8, E37, E38, E51, E52.

E48: Assemble Rudder Structure Credit includes, Tasks E45 and E47

E59: Assemble Vertical Stab Structure Credit includes, Tasks E32 and E34

E58 and E59 added items were inadvertently omitted from this checklist revision.

E-12 Flying wires are counted as cables.

FABRICATION AND ASSEMBLY TASKS		A	B	C	D	
		Mfr Kit/Part/ Component	Commercial Assistance	Am-Builder Assembly	Am-Builder Fabrication	
FABRICATION AND ASSEMBLY TASKS		A	B	C	D	
		Mfr Kit/Part/ Component	Commercial Assistance	Am-Builder Assembly	Am-Builder Fabrication	
Task #	Landing Gear – 12 Listed Tasks					
LG1	1	Fabricate Struts	1			0.0
LG2	1	Fabricate Brake System Components	1			0.0
LG3		Fabricate Landing Gear Actuation System Components	N/A			
LG4	1	Fabricate Landing Gear System Cables, Wires and Lines	0			1.0
LG5	1	Assemble Wheels	0		1.0	
LG6	1	Assemble Brakes, Tires	0		1.0	
LG7	1	Assemble Landing Gear	0		1.0	
LG8	1	Assemble Landing Gear System Components Next Level Structure	0		1.0	
LG9		Align Landing Gear	N/A			
LG10	1	Fabricate Landing Gear Fairings/Gear Doors	0			1.0
LG11	1	Assemble Landing Gear Fairings/Gear Doors to Next Level Structure	0		1.0	
LG12		Perform Landing Gear Operational Check (Normal, Emergency Systems)	N/A			
LG13	1	Add item: Fabricate Landing Gear Bracket and Fittings	0.9			0.1
LG14	1	Add item: Assemble Landing Gear Bracket and Fittings	0		1.0	
LG15	1	Add item: Fabricate Landing Gear Dampening	0.6			0.4
LG16	1	Add item: Assemble Landing Gear Dampening	0		1.0	
Total # of Land Gear Tasks	<u>Landing Gear Subtotal</u>		Mfr Kit/Part/ Component	Commercial Assistance	Am-Builder Assembly	Am-Builder Fabrication
13	<u>Landing Gear Total Points ►</u>		3.5	0	7	2.5

Landing Gear Comments:

FABRICATION AND ASSEMBLY TASKS		A	B	C	D
		Mfr Kit/Part/ Component	Commercial Assistance	Am-Builder Assembly	Am-Builder Fabrication
FABRICATION AND ASSEMBLY TASKS		A	B	C	D
		Mfr Kit/Part/ Component	Commercial Assistance	Am-Builder Assembly	Am-Builder Fabrication
Task #	Propulsion – 27 Listed Tasks				
P1	1 Fabricate Engine Mounts	0.9			0.1
P2	1 Assemble Engine Mounts to Next Level Structure	0		1.0	
P3	1 Fabricate Engine Cooling System/Baffles	0.4			0.6
P4	1 Assemble Engine Cooling System Baffles to Engine	0		1.0	
P5	Fabricate Engine Compartment Overheat/Fire Detection System	N/A			
P6	Assemble Engine Compartment Overheat/Fire Detection System to Engine Compartment	N/A			
P7	1 Fabricate Induction System	0.6			0.4
P8	1 Assemble Induction System to Engine	0		1.0	
P9	Fabricate Exhaust System	*			*
P10	1 Assemble Exhaust System to Engine	0		1.0	
P11	1 Fabricate Engine Control Installation Brackets	0.5			0.5
P12	1 Assemble Engine Controls to Next Level Structure	0		1.0	
P13	Rig and Adjust Engine Controls	N/A			
P14	1 Fabricate Brackets and Fittings	0.6			0.4
P15	1 Assemble Brackets and Fittings to Next Level Structure	0		1.0	
P16	1 Fabricate Cables, Wires and Lines	0.2			0.8
P17	1 Assemble Cables, Wires and Lines to next Level Structure	0		1.0	
P18	Assemble Engine (Likely N/A)	N/A			
P19	1 Assemble Engine to Engine Mount	0		1.0	
P20	Fabricate Engine Propeller (Likely N/A)	N/A			
P21	Fabricate Propeller Spinner Components	N/A			
P22	1 Assemble Propeller to Engine	0		1.0	
P23	Rig and Track Propeller	N/A			
P24	1 Fabricate Engine Cowling	0.5			0.5
P25	1 Assemble Engine Cowling to Airframe	0		1.0	
P26	1 Fabricate Engine Fuel System Components	0.4			0.6
P27	1 Assemble Engine Fuel System Components to Next Level Structure	0		1.0	
P28	1 Add item: Fabricate Firewall	0.8			0.2
P29	1 Add item: Assemble Firewall	0		1.0	
P30	Add item:				
P31	Add item:				

FABRICATION AND ASSEMBLY TASKS		A	B	C	D
		Mfr Kit/Part/ Component	Commercial Assistance	Am-Builder Assembly	Am-Builder Fabrication
Total # of Propulsion Tasks	<u>Propulsion Subtotal</u>	Mfr Kit/Part/ Component	Commercial Assistance	Am-Builder Assembly	Am-Builder Fabrication
21	<u>Propulsion Total Points ►</u>	4.9	0	12	4.1

Propulsion Comments:
P28 and P29 added items were inadvertently omitted from this checklist revision.

All task item blocks annotated with an asterisk {*} are not supplied with the kit but are required for flight. These tasks must be considered and scored by the FAA inspector / Designee at the time of Airworthiness inspection.

FABRICATION AND ASSEMBLY TASKS		A	B	C	D	
		Mfr Kit/Part/ Component	Commercial Assistance	Am-Builder Assembly	Am-Builder Fabrication	
FABRICATION AND ASSEMBLY TASKS		A	B	C	D	
		Mfr Kit/Part/ Component	Commercial Assistance	Am-Builder Assembly	Am-Builder Fabrication	
Task #	Cockpit Interior – 11 Listed Tasks					
C1	1	Fabricate Instrument Panel	0.8			0.2
C2	1	Fabricate Instrument Panel Bracket and Fittings	0.5			0.5
C3	1	Assemble Instrument Panel with Fittings and Brackets	0		1.0	
C4		Assemble Avionics to Instrument Panel	N/A			
C5	1	Fabricate Seats	1			0.0
C6	1	Fabricate Seat Brackets and Fittings	0.8			0.2
C7	1	Assemble Seats to Cockpit	0		1.0	
C8	1	Fabricate Seat Belts Fittings and Shoulder Harness Fittings	0.8			0.2
C9	1	Assemble Seat Belts and Shoulder Harness to Structure	0		1.0	
C10	1	Fabricate Electrical Wiring, Controls and Switches	0.8			0.2
C11	1	Assemble Electrical Systems Controls and Switches to Next Level Structure	0		1.0	
C12	1	Add item: Fabricate Closeout Panels/Floor Panels	0.8			0.2
C13	1	Add item: Assemble Closeout Panels/Floor Panels	0		1.0	
C14		Add item:				
C15		Add item:				
Total # of Cockpit Tasks		Cockpit Interior Subtotal	Mfr Kit/Part/ Component	Commercial Assistance	Am-Builder Assembly	Am-Builder Fabrication
12		Cockpit Interior Total Points ►	5.5	0	5	1.5

Cockpit Comments:
C12 and C13 added items were inadvertently omitted from this checklist revision.

FABRICATION AND ASSEMBLY TASKS		A	B	C	D
		Mfr Kit/Part/	Commercial	Am-Builder	Am-Builder
		Component	Assistance	Assembly	Fabrication
Total # of Aircraft Tasks	◀ SUM #1				
148					

▶ TOTAL TASKS AND LINE ITEMS



FABRICATION AND ASSEMBLY SUMMARY		A	B	C	D
		Mfr Kit/Part/Component	Commercial Assistance	Am Builder Assembly	Am Builder Fabrication
1. Total Points for Each Category.	(Note 1)	62.4	0.0	66.2	19.4
2. Total Points for Complete Aircraft Construction (SUM # 2 should equal SUM # 1 above).	(Note 2)	(SUM #2) ▶ 148.0			
3. Percentage of Each Category as Part of Total Aircraft Construction.	(Note 3)	42.16%	0.00%	44.73%	13.11%
4. Total Percentages for Complete Aircraft Construction (Add all percentages in row 3) Total should equal 100% (± . 5%).	(Note 4)		100.0%		
Total Builder Points – Add points in row 1, column C and D only, together.	(Note 5)			85.6	
Total Builder Percentage – Add percentages in row 3, columns C and D only, together.	(Note 6)			57.84%	