Amateur-Built Fabrication and Assembly Checklist (2009)

(Fixed Wing)

Name(s)	Sonex Aircraft LLC		
Address:	511 Aviation Road, Oshkosh, WI 54902-7145		
Aircraft Model:	Sonex		
Date:	January 26, 2010		
•	NKET Evaluators: Matt Tomsheck, Michael Sloat,		
Remarks:	John Kolin, Joseph Palmisano		
Pack List #SNX-KIT-021810			

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 Amateurbuilt 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.

		A Mfr Kit/Part/	В	C	D
FAB	FABRICATION AND ASSEMBLY TASKS		Commercial		Am-Builder
		Component	Assistance	Assembly	Fabrication
Task	Fuselage – 24 Listed Tasks				
#					
F1	Fabricate Longitudinal Members	0.1			
F2	Fabricate Composite Cores or Shells, Skins	0.8			
F3	Fabricate Bulkheads or Cross members	0.6			
F4	Fabricate Control Yokes/Sticks	0.9			
F5	Assemble Control Yokes/Sticks	0			
F6	Fabricate Flt Control Push Pull Tubes/Cables	0.9			
F7	Assemble Flt Control Push Pull Tubes/Cables	0			
F8	Assemble Fuselage Basic Structure	0			
F9	Fabricate Brackets and Fittings	0.6			
F10	Assemble Brackets and Fittings	0			
F11	Fabricate Cables, Wire, and Lines	1			
F12	Assemble Cables, Wire, and Lines	0			
F13	Fabricate Fuselage Fuel System Components	N/A			
F14	Assemble Fuselage Fuel System Components	0			
F15	Fabricate Fuselage Covering or Skin	0.8			
F16	Assemble Fuselage Covering or Skin	0			
F17	Fabricate Windshield	0.3			
F18	Assemble Windshield to Fuselage	0			
F19	Fabricate Windows	N/A			
F20	Assemble Windows to Fuselage	N/A			
F21	Fabricate Doors/Canopy	0.3			
F22	Assemble Doors/Canopy to Fuselage	0			
F23	Fabricate Mast and Strut Assembly	N/A			
F24	Assemble Mast and Strut Assembly	N/A			

			A	В	C	D
FAB	RICATIO	N AND ASSEMBLY TASKS	Mfr Kit/Part/	Commercial	Am-Builder	Am-Builder
			Component	Assistance	Assembly	Fabrication
F25	Add item:	Fabricate Fuel Tank	0.9			
F26	Add item:	Assemble Fuel Tank	0			
F27	Add item: Calibrate Fuel System Components		0			
F28	Add item:					
F29	Add item:					
	otal # of lage Tasks	Fuselage Subtotal	Mfr Kit/Part/ Component	Commercial Assistance	Am-Builder Assembly	Am-Builder Fabrication
	22	Fuselage Total Points >	7.2	0.0	0.0	0.0

Fuselage Comments:

Bulkhead fabrication decreased by .1 for Waiex due to extra extra bulkhead (additional fabrication for the builder) for this aircraft as compared to the Sonex.

Flight Ctrl Push-Pull tube fabrication dereased by .1 due to extra mixer bracket (additional fabrication for the builder) for this aircraft as

compared to the Sonex.

A Mfr Kit/Par	Assistance B Commercial	Am-Builder Assembly C Am-Builder Assembly	Fabrication D
FABRICATION AND ASSEMBLY TASKS Mifr Kit/Par Componen	B Commercial	C Am-Builder	D Am-Builder
Task Wings – 51 Listed Tasks WI Fabricate Wing Spars WI Fabricate Wing Spars to Wing WI Fabricate Wing Ribs or Cores WI Fabricate Wing Ribs or Cores WI Fabricate Composite Cores to Wing WI Fabricate Wing Leading and Trailing Edges WI Fabricate Wing Leading & Trailing Edges to Wing WI Fabricate Wing Leading & Trailing Edges to Wing WI Fabricate Wing Leading & Trailing Edges to Wing WI Fabricate Wing Leading & Trailing Edges to Wing WI Fabricate Wing Leading & Trailing Edges to Wing WI Fabricate Wing Leading & Trailing Edges to Wing WI Fabricate Wing Engal Truss Members WI Fabricate Wing Brackets and Fittings O.6 WI Fabricate Wing Brackets and Fittings to Wing O.8 WI Fabricate Wing Tips O.8 WI Fabricate Special Tools or Fixtures N/A WIF Fabricate Aileron Spars WIF Fabricate Aileron Ribs or Cores WIF Fabricate Aileron Ribs or Cores to Aileron O Eabricate Aileron Leading and Trailing Edges N/A WI Assemble Aileron Leading and Trailing Edges N/A WI Assemble Aileron Brackets and Fittings O.8 WI Assemble Aileron Primary Structure O Eabricate Aileron Brackets and Fittings O.8 WI Assemble Aileron Primary Structure O Eabricate Aileron Brackets and Fittings O.8 WI Assemble Aileron Brackets and Fittings O.8 WI Assemble Aileron Brackets A Fittings to Aileron O Eabricate Aileron Brackets & Fittings to Aileron O Eabricate Aileron Brackets & Fittings to Aileron O Eabricate Aileron Covering or Skin to Aileron O Eabricate Aileron Roll Trim N/A WI Assemble Aileron Trim Tab/Roll Trim to Aileron N/A	Commercial	Am-Builder	Am-Builder
Task # Wings – 51 Listed Tasks # Wings – 51 Listed Tasks # W1 Fabricate Wing Spars			
Task # Wings – 51 Listed Tasks # W1 Fabricate Wing Spars	Assistance	Assembly	Fabrication
# Solution of the state of the			
W1 Fabricate Wing Spars 0.4 W2 Assemble Wing Spars to Wing 0 W3 Fabricate Wing Ribs or Cores 0.9 W4 Assemble Wing Ribs or Cores to Wing 0 W5 Fabricate Composite Cores N/A W6 Assemble Composite Cores to Wing N/A W6 Assemble Composite Cores to Wing N/A W7 Fabricate Wing Leading and Trailing Edges 0.8 W8 Assemble Wing Leading & Trailing Edges to Wing 0 W9 Fabricate Drag/Anti-drag Truss Members N/A W10 Assemble Drag/Anti-drag Truss Members to Wing N/A W11 Fabricate Wing Brackets and Fittings 0.6 W12 Assemble Wing Brackets and Fittings 0.6 W12 Assemble Wing Brackets and Fittings to Wing 0 W13 Fabricate Wing Tips to Wings 0 W14 Assemble Wing Tips to Wings 0 W15 Fabricate Aileron Ribs or Cores N/A W16 Fabricate Aileron Ribs or Cores 0.8 W18 Assemble Aileron Ribs or Cores to Aileron 0 W20			
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W24Fabricate Aileron Covering or Skin0.7W25Assemble Aileron Covering or Skin to Aileron0W26Fabricate Aileron Roll TrimN/AW27Assemble Aileron Trim Tab/Roll Trim to AileronN/A		1	
W26Fabricate Aileron Roll TrimN/AW27Assemble Aileron Trim Tab/Roll Trim to AileronN/A		1	
W27 Assemble Aileron Trim Tab/Roll Trim to Aileron N/A		1	
]	
Woo Agamble Allows to Wing]	
W28 Assemble Aileron to Wing 0		1	
W29 Fabricate Flap Spars N/A]	
W30 Assemble Flap Spars to Flap N/A			
W31 Fabricate Flap Ribs or Cores 0.8			
W32 Assemble Flap Ribs or Cores to Flap 0]	
W33 Assemble Flap Primary Structure 0]	
W34 Fabricate Flap Leading and Trailing Edges N/A			
W35 Assemble Flap Brackets and Fittings to Flap 0			
W36 Fabricate Flap Covering or Skin 0.7]	
W37 Assemble Flap Covering or Skin to Flap 0]	
W38 Assemble Flaps to Wing 0]	
W39 Fabricate Wing External Lighting Components N/A		1	
W40 Assemble Wing Ext Lighting Components to Wing N/A		1	
W41 Assemble Basic Wing Structure 0		1	
W42 Fabricate Wing Fuel System components N/A		1	
W43 Assemble Wing Fuel System Components to Wing N/A		1	
W44 Fabricate Cables Wires and Lines N/A		1	

	ABRICATION AND ASSEMBLY TASKS		A	В	C	D
FAB			Mfr Kit/Part/	Commercial	Am-Builder	Am-Builder
			Component	Assistance	Assembly	Fabrication
W45	Assemble (Cables Wires and Lines to Wing	0			
W46	Fabricate V	Ving Covering or Skin	0.8			
W47	Assemble \	Wing Covering or Skin to Wing	0			
W48	Fabricate V	Ving Struts/Wires	N/A			
W49	Fabricate F	Tuel Tank	N/A			
W50	Assemble l	Fuel Tank to Wing	N/A			
W51	Calibrate F	uel System Components	N/A			
W52	Add item:	Fabricate Flap Bracket and Fittings	0.8			
W53	Add Item:					
W54	Add Item:					
То	otal # of		Mfr Kit/Part/	Commercial	Am-Builder	Am-Builder
Wir	ng Tasks	Wings Subtotal	Component	Assistance	Assembly	Fabrication
	30	Wings Total Points ▶	8.9	0	0	0

Wing Comments:		

		A	В	C	D
FAB	FABRICATION AND ASSEMBLY TASKS		Commercial		Am-Builder
1		Component	Assistance	Assembly	Fabrication
	FABRICATION AND ASSEMBLY TASKS	A	В	C	D
	THE PROPERTY OF THE PARTY OF TH	Mfr Kit/Part/		Am-Builder	
Task	Empennage – 57 Listed Tasks	Component	Assistance	Assembly	Fabrication
#	- 0				
	Fabricate Horizontal Stabilizer Spars	0.6			
	Assemble Horizontal Stabilizer Spar(s) to Stabilizer	0			
	Fabricate Horizontal Stabilizar Ribs or Cores	0.1			
E4	Assemble Horizontal Stabilizer Ribs or Cores to Stabilizer	0	_	ļ	
E5	Fabricate Horizontal Stabilizer Leading and Trailing Edge	N/A			
E6	Assemble Horizontal Stabilizer Leading and Trailing Edges- to-Stabilizer	N/A			
E7	Fabricate Horizontal Stabilizer Brackets & Fittings	0.4		ļ	
E8	Assemble Horizontal Stabilizer Brackets and Fittings to Stabilizer	1			
	Assemble Horizontal Stabilizer Structure	1	ļ i	1	
E10	Fabricate Horizontal Stabilizer Lead/Trailing Edges	N/A]	
F11	Assemble Horizontal Stabilizer Lead/Trailing Edges to Stabilizer	N/A			
	Fabricate Horizontal Stabilizer Cables, Wires and Lines	N/A		1	
F13	Assemble Horizontal Stabilizer Cables, Wires and Lines to stabilizer	N/A			
	Fabricate Horizontal Stabilizer Empennage Covering or Skin	0.8			
H I ⊃ I	Assemble Horizontal Stabilizer Empennage Covering or Skin to Stabilizer	0			
E16	Assemble Horizontal Stabilizer Structure to Fuselage	0]	
	Fabricate Elevator Spars	N/A		l	
	Assemble Elevator Spars to Elevator	N/A			
	Fabricate Elevator Ribs Cores	0.8]	
	Assemble Elevator Ribs Cores to Elevator	0			
E21	Assemble Elevator Structure	0			
	Fabricate Elevator Leading and Trailing Edge	N/A			
	Assemble Elevator Leading and Trailing Edges to Elevator	N/A			
	Fabricate Elevator Brackets and Fittings	0.9			
	Assemble Elevator Brackets and Fittings to Elevator	0			
	Fabricate Elevator Covering or Skins	0.7			
	Assemble Elevator Covering or Skins to Elevator	0			
	Fabricate Elevator Trim Tab	N/A			
	Assemble Elevator Trim Tab to Elevator	N/A			
	Fabricate Special Tools or Fixtures	N/A			
	Fabricate Vertical Stabilizer Spars	0.5			
	Assemble Vertical Stabilizer Spar to the Vertical Stabilizer	0			
	Fabricate Vertical Stabilizer Ribs Cores	0.1			
	Assemble Ribs Cores to Vertical Stabilizer	0			
E35	Fabricate Vertical Stabilizer Leading/Trailing Edges	N/A			
E36	Assemble Leading and Trailing Edges to Vertical Stabilizer	N/A			

			A	В	C	D
FAB!	RICATIO	N AND ASSEMBLY TASKS	Mfr Kit/Part/	Commercial		Am-Builder
			Component	Assistance	Assembly	Fabrication
		Vertical Stabilizer Brackets and Fittings	0.4			
		Brackets and Fittings to Vertical Stabilizer	0			
		Vertical Stabilizer Cables, Wires, Lines	N/A			
E40	Assemble (Cables, Wires, Lines to Vertical Stabilizer	N/A			
E41	Fabricate \	Vertical Stabilizer Covering or Skin	0.8			
E42	Assemble Stabilizer	Vertical Stabilizer Covering or Skin to Vertical	0			
E43	Assemble \	Vertical Stabilizer Structure to Fuselage	0			
E44	Fabricate F	Rudder Spar	N/A			
E45	Assemble l	Rudder Spar to Rudder	N/A			
E46	Fabricate F	Rudder Ribs or Cores	0.8			
E47	Assemble l	Rudder Ribs or Cores to Rudder	0			
E48	Assemble l	Rudder Structure	0			
E49	Fabricate F	Rudder Leading and Trailing Edge	N/A			
E50	Assemble l	Rudder Leading and Trailing Edge to Rudder	N/A			
E51	Fabricate F	Rudder Brackets and Fittings	0.7			
E52	Assemble l	Rudder Brackets and Fittings to Rudder	0			
E53	Fabricate F	Rudder Covering or Skin	0.7			
E54	Assemble 1	Rudder Covering or Skin to Rudder	0			
E55	Fabricate F	Rudder Trim Tab	0.8			
E56	Assemble 1	Rudder Trim Tab to Rudder	0			
E57	Assemble 1	Rudder to Vertical Stabilizer	0			
E58	Add Item:	Fabricate Horizontal Stabilizer Tips	0.8			
E59	Add Item:	Assemble Horizontal Stabilizer Tips	0			
E60	^		0.8			
E61	*		0			
То	tal # of) (C W: /D - /	0	4 D 111	+ D '11
Em	pennage	Empennage Subtotal	Mfr Kit/Part/			
•	Tasks		Component	Assistance	Assembly	Fabrication
	40	Empennage Total Points	12.7	0	0	0

Empennage Comments: E5 & E6 deleted as duplicates of E10 & E11

				В	C	D
FAB]	RICATIO	N AND ASSEMBLY TASKS	Mfr Kit/Part/ Component	Commercial	Am-Builder	Am-Builder
				Assistance	Assembly	Fabrication
	EADDI	CATION AND ACCEMDIANT TACKS	A	В	C	D
	FABRICATION AND ASSEMBLY TASKS			Commercial		Am-Builder
			Component	Assistance	Assembly	Fabrication
Task #	Land	ding Gear – 12 Listed Tasks				
LG1	Fabricate S	Struts	0.8			
LG2	Fabricate E	Brake System Components	0.9			
LG3	Fabricate I	Landing Gear Actuation System Components	N/A			
		Landing Gear System Cables, Wires and Lines	0.9			
LG5	Assemble '	Wheels	0			
LG6	Assemble 1	Brakes, Tires	0			
LG7	Assemble Landing Gear		0			
LG8	Assemble Landing Gear System Components Next Level Structure		0			
LG9	Align Land	ling Gear	0			
LG10	Fabricate I	Landing Gear Fairings/Gear Doors	0.4			
LG11	Assemble l Structure	Landing Gear Fairings/Gear Doors to Next Level	0			
LG12		Perform Landing Gear Operational Check (Normal, Emergency Systems)				
LG13	Add item:	Fabricate Landing Gear Bracket and Fittings	0.7			
LG14	4 Add item: Assemble Landing Gear Bracket and Fittings		0			
LG15 Add item:						
LG16 Add item:						
То	tal # of		Mfr Kit/Part/	Commercial	Am-Builder	Am-Builder
La	nd Gear	Landing Gear Subtotal	Component	Assistance	Assembly	Fabrication
	Γasks		Component	1 issistance	rissembly	1 autication
	12	Landing Gear Total Points ▶	3.7	0	0	0

Landing Gear Comments:

		A	В	C	D	
FABI	FABRICATION AND ASSEMBLY TASKS		Mfr Kit/Part/	Commercial	Am-Builder	
			Component	Assistance	Assembly	Fabrication
	FABRICATION AND ASSEMBLY TASKS			В	C	D
	TADN	MCATION AND ASSEMBLI TASKS	Mfr Kit/Part/			Am-Builder
T. 1		1. 271.4 17. 1	Component	Assistance	Assembly	Fabrication
Task #	Pro	opulsion – 27 Listed Tasks				
P1	Fabricate E	Engine Mounts	0.9			
P2	Assemble 1	Engine Mounts to Next Level Structure	0			
		Engine Cooling System/Baffles	N/A			
P4	Assemble 1	Engine Cooling System Baffles to Engine	0			
ו פין וו	Fabricate E System	Engine Compartment Overheat/Fire Detection	N/A			
Р6	System to 1	Engine Compartment Overheat/Fire Detection Engine Compartment	N/A			
P7	Fabricate I	nduction System	N/A			
P8	Assemble 1	Induction System to Engine	0			
P9	Fabricate E	Exhaust System	0			
		Exhaust System to Engine	0			
		Engine Control Installation Brackets	N/A			
		Engine Controls to Next Level Structure	0			
P13	Rig and Ac	djust Engine Controls	0			
P14	Fabricate E	Brackets and Fittings	N/A			
P15	Assemble 1	Brackets and Fittings to Next Level Structure	0			
P16	Fabricate (Cables, Wires and Lines	N/A			
P17	Assemble (Cables, Wires and Lines to next Level Structure	0			
P18	Assemble 1	Engine (Likely N/A)	N/A			
P19	Assemble 1	Engine to Engine Mount	0			
P20	Fabricate E	Engine Propeller (Likely N/A)	N/A			
P21	Fabricate F	Propeller Spinner Components	1			
P22	Assemble 1	Propeller to Engine	0			
P23	Rig and Tr	ack Propeller	0			
P24	Fabricate E	Engine Cowling	0.7			
		Engine Cowling to Airframe	0			
P26	Fabricate Engine Fuel System Components		N/A			
P27	Assemble Engine Fuel System Components to Next Level		0			
P28 Add item:						
P31 Add item:						
То	tal # of		Mfr Kit/Part/	Commercial	Am-Builder	Am-Builder
Pro	pulsion	Propulsion Subtotal	Component	Assistance	Am-Builder Assembly	Fabrication
]	Γasks		Component	113313141100	7133CIII019	1 aorteation
	17	<u>Propulsion Total Points</u> ►	2.6	0	0	0

Propulation Comments:

			A	В	C	D
FAB	RICATIO	N AND ASSEMBLY TASKS	Mfr Kit/Part/	Commercial	Am-Builder	
				Assistance	Assembly	Fabrication
	EADD	ICATION AND ACCEMBLY TACKS	A	В	C	D
	FABR	ICATION AND ASSEMBLY TASKS	Mfr Kit/Part/	Commercial	Am-Builder	Am-Builder
			Component	Assistance	Assembly	Fabrication
Task #	Cock	pit Interior – 11 Listed Tasks				
C1	Fabricate In	nstrument Panel	0.1			
C2	Fabricate I	nstrument Panel Bracket and Fittings	0.1			
C3	Assemble l	Instrument Panel with Fittings and Brackets	0			
C4	Assemble A	Avionics to Instrument Panel	0			
C5	Fabricate Seats		0			
C6	Fabricate Seat Brackets and Fittings		0			
C7	Assemble Seats to Cockpit		0			
C8	Fabricate S	Seat Belts Fittings and Shoulder Harness Fittings	0.6			
C9	Assemble S	Seat Belts and Shoulder Harness to Structure	0			
C10	Fabricate F	Electrical Wiring, Controls and Switches	N/A			
C11	Assemble Electrical Systems Controls and Switches to Next Level Structure		0			
C12	Add item:					
C13	Add item:					
	otal # of kpit Tasks	Cockpit Interior Subtotal	Mfr Kit/Part/ Component	Commercial Assistance	Am-Builder Assembly	Am-Builder Fabrication
	10	Cockpit Interior Total Points ►	0.8	0	0	0

Cockpit	Comments:

		\mathbf{A}	В	C	D
FABRICATION AND ASSEMBLY TASKS		Mfr Kit/Part/	Commercial	Am-Builder	Am-Builder
		Component	Assistance	Assembly	Fabrication
Total # of Aircraft Tasks					
131	<u> </u>				



TOTAL TASKS AND LINE ITEMS

	1			
\downarrow	\downarrow	\downarrow	\downarrow	

FABRICATION AND ASSEMBLY SUMMARY	A	В	C	D
	Mfr Kit/Part/ Component	Commercial Assistance	Am Builder Assembly	Am Builder Fabrication
1. Total Points for Each Category. (Note 1)	35.9			
2. Total Points for Complete Aircraft Construction (SUM # 2 should equal SUM # 1 above). (Note 2)	(SUM #2) ►			
3. Percentage of Each Category as Part of Total Aircraft Construction. (Note 3)	27.40%			
4. Total Percentages for Complete Aircraft Construction (Add all percentages in row 3) Total should equal 100% (± . 5%). (Note 4)				
Total Builder Points – Add points in row 1, column C and D only, together. (Note 5)				
Total Builder Percentage – Add percentages in row 3, columns C and D only, together. (Note 6)				