Inspection Check List for Experimental Weight Shift Control Aircraft

Builder:	Model	S/N
Date of Inspection	Inspector	_
Regulatory Prerequ	isites & Placards	
$S_{atisfactory}/U_{nsatisfacto}$	ry Item	$\mathbf{S} \mathbf{U}$
 Program Letter signed an Registration certificate av 	cation for A/W Certificate properly filled out d dated vailable in aircraft. (NOT pink slip!) (steel), has Builder's name, model, serial number.	Yes ☐ No ☐ N/A☐
5. ID data plate is installed6. N-Numbers installed, blo7. Word Experimental Disp	in proper external location per FAR 45. 11(a). ck letters, 3" proper location per FAR 45.25, layed, 2" min size, proper location per FAR 45.23(b).	Yes ☐ No ☐ N/A☐ Yes ☐ No ☐ N/A☐ Yes ☐ No ☐ N/A☐
certified aircraft" 9. Logbook has current ann	done, and shows within designer's limits. FAR 91.9 F	Yes ☐ No ☐ N/A ☐ Yes ☐ No ☐ N/A ☐
12. Markings for:a. Throttle- open-closeb. Carb Heat- pull on		Yes
Cockpit interior	r	
 Seat Belt Anchor Points Shoulder Harness Ancho Ballistic recovery system Ballistic recovery chute i 	n, and angle is slightly rearward	Yes
Instruments an	d required equipment	
 Fuel quantity for tank, ha Analog instruments mark EIS instruments installed Altimeter Airspeed indicator Tachometer EGT CHT Coolant temperature Oil Pressure Oil Temperature Anti collision strobe 	ed with green/red line ranges with limitations placard	Yes No N/A Yes No N/A

Electrical

11.	There is a battery installed: Type:	Yes No N/A Yes No N/A
A	vionics	
1. 2. 3. 4. 5.	Antennas are properly installed, and have proper support/doubler plates Coax Cable secured, with slack enough to prevent disconnection Radios/Avionics are mounted securely Avionics gear is wired properly, and functions Transponder "Mode C" check done, and in aircraft records	Yes
rı	uel System	
1. 2. 3. 4. 5. 6. 7. 8. 9.	Caps fit securely Fuel drains installed at lowest portion of tank, and at lowest point in fuel lines Fuel Vent System contains no loops which would block venting Shutoff valve/ Selector switch ease of operation, and clearly marked for intended operation Fuel Line routing proper material and diameter for intended fuel supply Fuel gascolator functional and safety wired Fuel filter installed with proper orientation Fuel Lines protected from chafing, and secure from "catching a foot." Fuel line routing avoids areas of heat Bypass line on fuel bulb	Yes No N/A
G	ear/Wheel/Brake Systems	
2. 3. 4. 5. 6. 7. 8. 9.	Fiberglass spring rods not cracked and servicable Shock absorbers filled and not flat Bungie shock cords in good condition and secure Tires in condition for safe oreration, inflated, no cuts, etc All wheel nuts secured against loosening Nose wheel steering controls free and adjusted for tracking Brake System components secure Brake & Wheel installation secure Tires are clear of pants or struts, including clearance of "mud scraper", no binding Wheel Pants are secure	Yes No N/A
G	eneral Condition- Cart Assembly	
1. 2. 3. 4. 5.	Tubing in good condition, no dents, abnormal bends or excessive holes. Main frame rails and/or keel in good condition Bracing cables or tubes secure, nico press sleeves properly made Bolts and nuts properly installed and secured Fairings secure and attachments strong enough to prevent loss in flight	Yes No N/A Page 2 of 4

Wing

1.	Battens and batten cords in place and secure, no damage	Yes ☐ No ☐ N/A☐
2.	All safety pins in place and secure	Yes No N/A
3.	Safety Cable in place and secure	Yes No No N/A
4.	Wing fabric in servicable condition, no damage	Yes No No N/A
5.	King post, reflex cable and trim cables no damage or chaffing	Yes No N/A
6.	Tensioning cable safety functional and secure	Yes No No N/A
7.	Steering Bar and cables secure	Yes No N/A
8.	All bolts and hardware in good condition and secure	Yes No N/A
9.	Wing moves freely, no binding	Yes No N/A
	Wing limitations decal or placard	Yes No No N/A
Fl	light Controls	
1.	Control bar movement free to limits of travel	Yes ☐ No ☐ N/A☐
2.	Clearance on controls/no hitting panel or floorboards	Yes No N/A
3.	Freedom of movement	Yes 🗌 No 🗍 N/A
\mathbf{E}_{1}	ngine	
	verything safetied in engine eompartment	Yes 🗌 No 🔲 N/A 📗
1.	Throttle cables anchored and functional	Yes No No N/A
2.	Clearances in engine compartment	Yes No N/A
3.	Carb Heat Control- Functional	Yes No N/A
4.	Mixture Control- Functional, spring full-rich	Yes No N/A
5.	Fuel Hose routing to avoid heat & bends	Yes No N/A
6.	Fuel strainer safety wired	Yes No N/A
7.	Fuel Hose diameter sufficient for engine	Yes No N/A
8.	Fuel and Oil Hoses proper material	Yes No N/A
9.	Oil System Hose & line filter installation	Yes No N/A
10.	Engine Mount secure, no cracks	Yes No N/A
	Alternator, belts, accessories properly installed	Yes No N/A
	All electrical and ignition wires appear correct	Yes \(\bar{\cap} \) No \(\bar{\cap} \) N/A\(\bar{\cap} \)
	Cowling secure	Yes No No N/A
Pı	ropeller	
1.	Propeller is free of un-repaired nicks and damage	Yes ☐ No ☐ N/A☐
2.	Bolts are safety wired or stop nuts installed	Yes No No N/A
3.	Bolts clear engine, proper length	Yes No N/A
4.	Prop clears ground in takeoff attitude by >7"	Yes No No N/A
5.	Prop Spinner o.k., clear of cowl, not uneven spin	Yes \square No \square N/A \square

Certification

Logs present and builder records the following statement:

"I certify that this aircraft has been inspected on [insert date] in accordance with the scope and detail of appendix D to part 43 and was found to be in a condition for safe operation."

1. 2. 3. 4.	Discuss operating limitations with applicant, flight test areas, and flight test time. Airworthiness application properly filled out and signed? Sign Logbook and issue certificate, if applicable OR Provide list of deficiencies to applicant, if applicable Unsatisfactory Conditions	Yes ☐ No ☐ N/A☐ Yes ☐ No ☐ N/A☐ Yes ☐ No ☐ N/A☐ Yes ☐ No ☐ N/A☐		
N_	Owner			
I have read and understand the operating limitations issued with the airworthiness certificate for this aircraft .				
Ov	vner:			
	signed	Date		