

Inspection Check List for PPC Light-Sport Aircraft

Builder: _____ Model _____ S/N _____

Date of Inspection _____ Inspector _____

Regulatory Prerequisites & Placards

Satisfactory / **U**nsatisfactory Item

S **U**

- | | |
|--|---|
| 1. Presents FAA Form 8130-6 Application for A/W Certificate properly filled out | Yes <input type="checkbox"/> No <input type="checkbox"/> N/A <input type="checkbox"/> |
| 2. Presents Program letter | Yes <input type="checkbox"/> No <input type="checkbox"/> N/A <input type="checkbox"/> |
| 3. A/C weight and loading done, and shows within designer's limits. FAR 91.9 Placards | Yes <input type="checkbox"/> No <input type="checkbox"/> N/A <input type="checkbox"/> |
| 4. Registration certificate available in aircraft. (NOT pink slip!) | Yes <input type="checkbox"/> No <input type="checkbox"/> N/A <input type="checkbox"/> |
| 5. ID data plate is fireproof (steel), has Builder's name, model, serial number. | Yes <input type="checkbox"/> No <input type="checkbox"/> N/A <input type="checkbox"/> |
| 6. ID data plate is installed in proper external location per FAR 45. 11(a). | Yes <input type="checkbox"/> No <input type="checkbox"/> N/A <input type="checkbox"/> |
| 7. N-Numbers installed, block letters, 3" proper location per FAR 45.25, | Yes <input type="checkbox"/> No <input type="checkbox"/> N/A <input type="checkbox"/> |
| 8. Word Experimental Displayed, 2" min size, proper location per FAR 45.23(b). | Yes <input type="checkbox"/> No <input type="checkbox"/> N/A <input type="checkbox"/> |
| 9. Passenger warning placard (not required for single place) ". This aircraft does not meet U.S. safety standards for certified aircraft..." | Yes <input type="checkbox"/> No <input type="checkbox"/> N/A <input type="checkbox"/> |
| 10. Builder makes statement in logbook that aircraft has been inspected | Yes <input type="checkbox"/> No <input type="checkbox"/> N/A <input type="checkbox"/> |
| 11. All controls - flight and engine, marked as to use. | Yes <input type="checkbox"/> No <input type="checkbox"/> N/A <input type="checkbox"/> |
| 12. Markings for: | |
| a. Throttle- open-closed | Yes <input type="checkbox"/> No <input type="checkbox"/> N/A <input type="checkbox"/> |
| b. Choke on-off | Yes <input type="checkbox"/> No <input type="checkbox"/> N/A <input type="checkbox"/> |
| c. Trim Tab | Yes <input type="checkbox"/> No <input type="checkbox"/> N/A <input type="checkbox"/> |

Cockpit interior

- | | |
|---|---|
| 1. Seat Belts function, and angle is slightly rearward | Yes <input type="checkbox"/> No <input type="checkbox"/> N/A <input type="checkbox"/> |
| 2. Shoulder harness functions | Yes <input type="checkbox"/> No <input type="checkbox"/> N/A <input type="checkbox"/> |
| 3. Seat Belt Anchor Points firm, no interference | Yes <input type="checkbox"/> No <input type="checkbox"/> N/A <input type="checkbox"/> |
| 4. Shoulder Harness Anchor Points firm, no interference | Yes <input type="checkbox"/> No <input type="checkbox"/> N/A <input type="checkbox"/> |
| 5. Seats in good condition and secured | Yes <input type="checkbox"/> No <input type="checkbox"/> N/A <input type="checkbox"/> |

Instruments and required equipment

- | | |
|---|---|
| 1. Fuel quantity for tank has been calibrated. | Yes <input type="checkbox"/> No <input type="checkbox"/> N/A <input type="checkbox"/> |
| 2. Analog instruments marked with green/red line ranges | Yes <input type="checkbox"/> No <input type="checkbox"/> N/A <input type="checkbox"/> |
| 3. EIS instruments installed with limitations placard on instrument panel | Yes <input type="checkbox"/> No <input type="checkbox"/> N/A <input type="checkbox"/> |
| a. Altimeter | Yes <input type="checkbox"/> No <input type="checkbox"/> N/A <input type="checkbox"/> |
| b. CHT guage | Yes <input type="checkbox"/> No <input type="checkbox"/> N/A <input type="checkbox"/> |
| c. EGT guage | Yes <input type="checkbox"/> No <input type="checkbox"/> N/A <input type="checkbox"/> |
| d. Tachometer | Yes <input type="checkbox"/> No <input type="checkbox"/> N/A <input type="checkbox"/> |
| e. Coolant temp | Yes <input type="checkbox"/> No <input type="checkbox"/> N/A <input type="checkbox"/> |
| f. Oil Pressure | Yes <input type="checkbox"/> No <input type="checkbox"/> N/A <input type="checkbox"/> |
| g. Oil Temperature | Yes <input type="checkbox"/> No <input type="checkbox"/> N/A <input type="checkbox"/> |
| h. Anti collision strobes/rotating beacon | Yes <input type="checkbox"/> No <input type="checkbox"/> N/A <input type="checkbox"/> |

Electrical

1. There is a battery installed. Type: _____ Yes No
2. Battery case and battery securely mounted Yes No N/A
3. Battery vented overboard Yes No N/A
4. Battery wiring adequate size and secure Yes No N/A
5. Electrical system wiring adequate size and secure Yes No N/A
6. Switches marked for operation, and wired properly Yes No N/A
7. Circuit Breakers or fuses labeled for value and function, and wired properly Yes No N/A
8. Ground on battery to airframe or wired into place properly Yes No N/A
9. Ammeter installed Yes No N/A
10. Voltmeter installed Yes No N/A
11. Landing Lights / Position Lights wired correctly Yes No N/A
12. Cockpit lights/ Instrument lighting installed Yes No N/A

Avionics

1. Antennas are properly installed, and have proper support/doubler plates Yes No N/A
2. Coax Cable secured, with slack enough to prevent disconnection Yes No N/A
3. Avionics gear is wired properly, and functions Yes No N/A
4. Transponder if installed, "Mode C" check done, and in aircraft records Yes No N/A

Fuel System

1. Caps fit securely Yes No N/A
2. Fuel drains installed at lowest portion of tank, and at lowest point in fuel lines Yes No N/A
3. Fuel Vent System contains no loops which would block venting Yes No N/A
4. Shutoff valve/ Selector switch ease of operation, and clearly marked for intended operation Yes No N/A
5. Fuel Line routing proper material and diameter for intended fuel supply Yes No N/A
6. Fuel gascolator functional and safety wired Yes No N/A
7. Fuel filter installed, proper orientation Yes No N/A
8. Fuel Lines protected from chafing, and secure. Yes No N/A
9. Fuel line routing avoids areas of heat Yes No N/A

Gear/Wheel/Brake Systems

1. Fiberglass spring rods not cracked and servicable Yes No N/A
2. Shock absorbers filled and not flat Yes No N/A
3. Tires in condition for safe operation, inflated, no cuts, etc Yes No N/A
4. All wheel nuts secured against loosening Yes No N/A
5. Nose wheel steering controls free and adjusted for tracking Yes No N/A
6. Nose wheel steering rods servicable and secured properly Yes No N/A
7. Brake System Yes No N/A
8. Brake & Wheel installation secure Yes No N/A
9. Tires are clear of pants or struts, including clearance of "mud scraper", no binding Yes No N/A
10. Wheel Pants are secure Yes No N/A

General Condition- Cart Assembly

1. Tubing in good condition, no dents, abnormal bends or excessive holes. Yes No N/A
2. Main frame rails or keel in good condition, no bends or damage Yes No N/A
3. Bracing cables or tubes secure, nico press sleeves properly made Yes No N/A
4. All bolts and nuts properly installed and secured Yes No N/A
5. Steering lines secured safely Yes No N/A

Wing and attachments

- | | | | |
|--|------------------------------|-----------------------------|------------------------------|
| 1. Malliot Rapide links installed properly | Yes <input type="checkbox"/> | No <input type="checkbox"/> | N/A <input type="checkbox"/> |
| 2. Riser straps in good condition, no frays or damage | Yes <input type="checkbox"/> | No <input type="checkbox"/> | N/A <input type="checkbox"/> |
| 3. Canopy lines in good condition, no knots or damage | Yes <input type="checkbox"/> | No <input type="checkbox"/> | N/A <input type="checkbox"/> |
| 4. Steering lines in good condition | Yes <input type="checkbox"/> | No <input type="checkbox"/> | N/A <input type="checkbox"/> |
| 5. Canopy fabric in good condition, no tears or sun damage | Yes <input type="checkbox"/> | No <input type="checkbox"/> | N/A <input type="checkbox"/> |
| 6. Last inspection _____ | | | |

Flight Controls

- | | | | |
|--|------------------------------|-----------------------------|------------------------------|
| 1. Clearance on controls/no hitting panels, floorboards or structure | Yes <input type="checkbox"/> | No <input type="checkbox"/> | N/A <input type="checkbox"/> |
| 2. Good freedom of movement no binding | Yes <input type="checkbox"/> | No <input type="checkbox"/> | N/A <input type="checkbox"/> |

Engine

Is everything safetied in engine compartment Yes No N/A

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|---|------------------------------|-----------------------------|------------------------------|
| 1. Throttle cables anchored and functional | Yes <input type="checkbox"/> | No <input type="checkbox"/> | N/A <input type="checkbox"/> |
| 2. Clearances in engine compartment satisfactory | Yes <input type="checkbox"/> | No <input type="checkbox"/> | N/A <input type="checkbox"/> |
| 3. Carb Heat Control- Functional | Yes <input type="checkbox"/> | No <input type="checkbox"/> | N/A <input type="checkbox"/> |
| 4. Mixture Control- Functional, spring full-rich | Yes <input type="checkbox"/> | No <input type="checkbox"/> | N/A <input type="checkbox"/> |
| 5. Oil Hoses proper material | Yes <input type="checkbox"/> | No <input type="checkbox"/> | N/A <input type="checkbox"/> |
| 6. Oil System line filter installed | Yes <input type="checkbox"/> | No <input type="checkbox"/> | N/A <input type="checkbox"/> |
| 7. Engine Mount secure, no cracks or loose bolts | Yes <input type="checkbox"/> | No <input type="checkbox"/> | N/A <input type="checkbox"/> |
| 8. All electrical and ignition wires appear correct | Yes <input type="checkbox"/> | No <input type="checkbox"/> | N/A <input type="checkbox"/> |

Propeller

- | | | | |
|--|------------------------------|-----------------------------|------------------------------|
| 1. Propeller free of nicks, no blade damage | Yes <input type="checkbox"/> | No <input type="checkbox"/> | N/A <input type="checkbox"/> |
| 2. Prop bolts safety wired or safety nuts installed | Yes <input type="checkbox"/> | No <input type="checkbox"/> | N/A <input type="checkbox"/> |
| 3. Bolts clear engine and gearbox and are of proper length | Yes <input type="checkbox"/> | No <input type="checkbox"/> | N/A <input type="checkbox"/> |
| 4. Prop Spinner o.k., not uneven spin | Yes <input type="checkbox"/> | No <input type="checkbox"/> | N/A <input type="checkbox"/> |

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.”

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|---|------------------------------|-----------------------------|------------------------------|
| 1. Discuss operating limitations with applicant, flight test areas, and flight test time. | Yes <input type="checkbox"/> | No <input type="checkbox"/> | N/A <input type="checkbox"/> |
| 2. Sign Logbook and issue certificate, if applicable OR | Yes <input type="checkbox"/> | No <input type="checkbox"/> | N/A <input type="checkbox"/> |
| 3. Provide list of deficiencies to applicant, if applicable Unsatisfactory Conditions | Yes <input type="checkbox"/> | No <input type="checkbox"/> | N/A <input type="checkbox"/> |

I have read and understand the operating limitations issued with the airworthiness certificate for this aircraft .

Owner: _____
signed Date