

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

Avionics

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

Fuel System

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

Gear/Wheel/Brake Systems

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

General Condition- Cart Assembly

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

Wing and attachments

- | | | | |
|--|------------------------------|-----------------------------|------------------------------|
| 1. Maillon 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
- | | | | |
|---|------------------------------|-----------------------------|------------------------------|
| 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.”

- | | | | |
|---|------------------------------|-----------------------------|------------------------------|
| 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