PRE-FLIGHT FINAL INSPECTION
AMATEUR BUILT AIRCRAFT

Review this form ***before*** you call the L4 Amateur Built Inspector.

It is the builder's responsibility to provide **this** inspection checklist and ensure all matters pertaining to the aircraft construction and preparation have been completed.

☐ **Aircraft is complete**. No outstanding or remaining jobs. All equipment and furnishings are installed.

☐ **Registration Markings**. The aircraft has the required registration markings affixed as per Section 5.1 of Technical manual. Supply image of LHS and RHS registration to RAAus.

☐ **Warning Placards/labels**. The aircraft has the required placards/labels affixed as per Section 9.1 of Technical manual. Supply image of Warning Placard and MTOW placard to RAAus.

☐ **Builder's Construction Log Book**. The builder's construction log book and verification of stage inspections conducted must be in a respectable format and available. Photographs or various construction stages are available.

☐ **Weight and Balance report (or weighing report for 95.32)**. A workable document giving weight and balance details is required. See Section 10 of the RAAus Technical Manual. Supply copy of report to RAAus.

☐ **Basic Fuel Calibration**. A basic fuel calibration is to have been carried out. Detail will depend on your system. Fuel bowser accuracies are acceptable.

☐ **Aircraft Maintenance Log Book**. Appropriately prepared for the aeroplane. (Log book available from RAAus Office)

☐ **RAAus Membership**. The nominated test pilot **must** be a current member of RAAus and hold a valid RAAus Pilot's Certificate.

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AMATEUR BUILT AIRCRAFT

All inspections to be conducted as listed or appropriate to equipment fitted.

Aircraft Identification:

Owner _____ Engine make _____

Aircraft Type _____ Engine model _____

Serial number _____ Engine serial number _____

Registration number _____ Engine total time _____

Airframe total time _____ Propeller make Propeller _____

serial number Propeller _____

total time _____

S = Satisfactory **U** = Unsatisfactory **N/A** = Not Applicable (correct any unsatisfactory items prior to signing off this form)	**L2 / L4**	
	S	**U**
PAPERWORK	☐	☐
Weight and Balance Report	☐	☐
Airservices Permission to operate without a noise certificate	☐	☐
Flight Manual or Pilot's Operating Handbook (or draft to be completed)	☐	☐
Maintenance Manual(s)	☐	☐
Flight Test Schedule (eg RAAus, FAA AC90-89A, etc)	☐	☐
RAAus Aircraft Log Book	☐	☐
RAAus Airworthiness Notices addressed and signed off in Aircraft Log Book	☐	☐
Manufacturer's Service Bulletins addressed and signed off in Aircraft Log Book	☐	☐

Comments:

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	S	**U**
FUSELAGE		
Remove Inspection Plates and Panels	☐	☐
Inspect Bulkheads and Stringers for Popped Rivets and Cracked Skin	☐	☐
Inspect for Delaminated Skin/Voids (Coin Test)	☐	☐
Inspect the Security of all Internal Lines	☐	☐
Inspect Windows/canopy for Cracks and Fit	☐	☐
Inspect Door or Canopy Latching Mechanism	☐	☐
Inspect Fire Wall for Distortion and cracks	☐	☐
Check Control Stick/Yoke for “Full, Free and Correct” movement	☐	☐
Check Flap Control Operation	☐	☐
Check Cable and Pulleys for Attachment and Operation	☐	☐
Ensure the Cockpit Instruments are Properly Marked	☐	☐
Inspect Instruments, Lines for Security	☐	☐
Inspect Cockpit Fresh Air Vents/Heater Vents for Operation and Security where fitted	☐	☐
Inspect Seats, Seat Belts/Shoulder Harness for Security and Attachment	☐	☐
Corrosion	☐	☐
Check Ballistic Chute Installation per Manufacturer	☐	☐
Ballistic chute warning placards on airframe	☐	☐
Amateur Built Placard Installed	☐	☐
Fireproof Aircraft Identification Plates Installed	☐	☐
Comments:		

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	S	**U**
LANDING GEAR		
Inspect Struts/Torque Links for Attachment	☐	☐
Inspect Struts for Proper Extension	☐	☐
Inspect for Hydraulic Leaks	☐	☐
Check all Bushings for Wear/Free Play	☐	☐
Check Lubrication	☐	☐
Inspect Wheels for Alignment	☐	☐
Wheel Tyres for Cracks and Serviceability	☐	☐
Wheel Bearings for Lubrication	☐	☐
Inspect for Corrosion	☐	☐
Inspect Nose Gear for Cracks and Travel	☐	☐
Inspect Tail Wheel for Cracks and Travel	☐	☐
Perform Gear Retraction Test/CK Indicator Lights	☐	☐
Emergency Gear Extension System	☐	☐
Check Tyre Pressure	☐	☐
Brake Lining within Limits	☐	☐
Brake Discs for Cracks, Wear and Deformity	☐	☐
Brake Hydraulic Lines for Leaks and Security	☐	☐
Comments:		

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	S	**U**
WINGS		
Remove Inspection Plates/Fairings	☐	☐
General Inspection of Exterior/Interior Wing	☐	☐
Flight Controls Balance Weights for Security	☐	☐
Flight Controls Proper Attachment (No Slop)	☐	☐
Flight Control Hinges/Rod End Bearings Serviceability	☐	☐
Flight Controls Properly Rigged/Proper Tension	☐	☐
Inspect all Control Stops for Security	☐	☐
Trim Control Surface/Hinges/Rod End Bearing Service	☐	☐
Skin Panels Delaminate/Voids (Coin Test)	☐	☐
Popped Rivets/Cracked/Deformed Skin	☐	☐
Fabric/Rib Stitching/Tape Condition	☐	☐
Lubrication	☐	☐
Wing Attach Points	☐	☐
Flying/Landing Wires/Struts for Security	☐	☐
Corrosion	☐	☐
Flight Control Bolts/Pins for Safety and Condition	☐	☐
Wing/Strut/Cable attachments and Hardware for Safety and Condition	☐	☐
Comments:		

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	S	**U**
EMPENNAGE / CANARD		
Remove Inspection Plates and Fairings	☐	☐
Inspect Canard attach Points for Security	☐	☐
Inspect Vertical Fin attach points	☐	☐
Inspect Elevator/Stabiliser attach points	☐	☐
Inspect Hinges/Trim Tabs/Rod Ends for attachment and Free Play (slop)	☐	☐
Inspect Empennage/Canard Skin for Damage/Corrosion	☐	☐
Inspect all Control Cables, Hinge and Pulleys	☐	☐
Inspect all Control Stops	☐	☐
Check all attachment Points and Controls for Safety Condition	☐	☐
Comments:		
FUEL SYSTEM		
Corrosion	☐	☐
Fuel Lines for Chafing/Leaks/Security/Condition	☐	☐
Sump all Fuel Tanks for Water or Debris	☐	☐
Fuel Caps for Security	☐	☐
Fuel Placard	☐	☐
Fuel Valve/Cross Feed/ for Operation and Security	☐	☐
Clean Fuel Filters & Gascolator, Flush System	☐	☐
Inspect Fuel Tank Vent System	☐	☐
Comments:		

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PROPELLER		
Check Spinner and Back Plate for Cracks	☐	☐
Inspect for Cracks/Stones Damage/Nicks	☐	☐
Check for Delamination (Wood/Composite Blades)	☐	☐
Check Prop Bolts Torque/Safety Wire	☐	☐
Check for Oil Leaks (Crankcase Nose Seal)	☐	☐
Grease Leaks (Constant Speed Prop)	☐	☐
Check Propeller Governor for Leaks and Operation	☐	☐
Check Prop Track	☐	☐
Check Prop Balance (Wood Prop – at engine run up test)	☐	☐
Comments:		
ELECTRICAL		
Spares Fuses Available	☐	☐
Battery Serviced and Free from Corrosion	☐	☐
Battery Box Free from Corrosion	☐	☐
Check Anti Collision Light for Operation	☐	☐
Inspect all Antenna Mounts and Wiring for Security	☐	☐
Check all Grounding Wires (Engine to Airframe, Wing to Aileron/Flap etc)	☐	☐
Inspect Radios/Leads/Wires for attachment and Security	☐	☐
Inspect Circuit Breaker/Fuses Panels for Condition	☐	☐
Comments:		

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OPERATIONAL INSPECTION		
Check Carb Boots on 2 Cycle engine for Cracks	☐	☐
Check Safeties on Exhaust Springs	☐	☐
Ensure Spark Plug Caps are Safetied on Inverted Engines	☐	☐
Visual Inspection of the Engine/Propeller	☐	☐
All Inspection Panels and Fairings secure	☐	☐
Proper Fuel in Tanks	☐	☐
Brake System Check	☐	☐
Engine Start Procedures – engine to be run at full power for 3 min continuously	☐	☐
Oil Pressure/Oil Temperature within Limits	☐	☐
Vacuum Gauge Check	☐	☐
Magneto Check/Hot Mag Check	☐	☐
Idle RPM/Mixture Check	☐	☐
Static RPM Check	☐	☐
Electrical System Check	☐	☐
Cycle In-Flight adjustable props through entire range	☐	☐
Cool Down Period/Engine Shut Down	☐	☐
Perform Oil, Hydraulic and Fuel Leak Check	☐	☐
Comments:		

CERTIFICATION OF INSPECTION

OWNER:

I _____ Membership number _____

of _____

being the builder of _____ (type & model)

RAAus registration no _____ Serial No _____

hereby certify that I have thoroughly inspected this aircraft for compliance with good airworthiness practices, quality of workmanship, and full, free and correct function of all control systems and equipment fitted to the aircraft in accordance with the **TECH FORM 007** checklist and found the aircraft to be satisfactory. There are no unsatisfactory items to be cleared before flight.

I fully understand and accept that I and no other person or organisation is responsible for the Airworthiness of this aircraft.

I acknowledge that the aircraft must not be flown until such time as the Technical Manager has issued a Permit to Test Fly the aircraft.

Builder's Signature _____ Date / /

THE AIRCRAFT MUST NOT BE FLOWN UNTIL A PERMIT TO TEST FLY THE AIRCRAFT IS ISSUED BY THE RAAus TECHNICAL MANAGER

RECOMMENDATION FOR TEST FLYING

To RAAus Technical Manager
From RAAus Level 4 for Amateur Built Aircraft:

I _____ being an RAAus L4 have personally observed the Pre-Flight Final Inspection being conducted by the owner and witnessed their signature at the Certification of Inspection within Tech Form 007.

I recommend the aircraft be test flown in the area within 25nm (or other _____) radius

of _____ (include map if required)

for a period of not less than _____ 25,40, (or other, not less than 25) hours.

Additional matters advised are: _____

_____

_____

_____

Recommended Test Pilot _____ Phone No. _____

Recommended Test Pilot _____ Phone No. _____

RAAus L4 Amateur Built Inspector.

Signed _____

Name _____ Date / /

Membership Number _____

ALL PAGES OF TECH FORM 007 MUST BE FORWARDED