## PRE-FLIGHT FINAL INSPECTION AMATEUR BUILT AIRCRAFT

It is the builder's responsibility to provide **this** inspection checklist and ensure all matters pertaining to the

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

aircraf	t construction and preparation have been completed.
	Aircraft is complete. No outstanding or remaining jobs. All equipment and furnishings are installed.
	<b>Registration Markings</b> . 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.
	<b>Warning Placards/labels</b> . 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.
	<b>Builder's Construction Log Book</b> . 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.
	<b>Weight and Balance report (or weighing report for 95.32)</b> . A workable document giving weight and balance details is required. See Section 10 of the RAAus Technical Manual. Supply copy of report to RAAus.
	<b>Basic Fuel Calibration</b> . A basic fuel calibration is to have been carried out. Detail will depend on your system. Fuel bowser accuracies are acceptable.
	<b>Aircraft Maintenance Log Book</b> . Appropriately prepared for the aeroplane. (Log book available from RAAus Office)
	<b>RAAus Membership</b> . The nominated test pilot <b>must</b> be a current member of RAAus and hold a valid RAAus Pilot's Certificate.
П	Fire-proof Data Plate

### PRE-FLIGHT FINAL INSPECTION AMATEUR BUILT AIRCRAFT

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

Aircraft Identification:				
Owner —	wner ————————————————————————————————————			
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 of	off in Aircraft Log Book			
Manufacturer's Service Bulletins addressed and signed off in Aircraft Log Book				
Comments:				

<b>S</b> = Satisfactory <b>U</b> = Unsatisfactory <b>N/A</b> = Not Applicable	L2 / L4 S	'L4
(correct any unsatisfactory items prior to signing off this form)	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		

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(correct any unsatisfactory items prior to signing off this form)	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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(correct any unsatisfactory items prior to signing off this form)	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:	1	1	

( a constant and constitution of the constitut	L2 / L4		
(correct any unsatisfactory items prior to signing off this form)  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		

OWNER:

#### **CERTIFICATION OF INSPECTION**

Ι	Membership number	
being the builder of		(type & model)
RAAus registration no	Serial No	
practices, quality of workmanship, and fu	pected this aircraft for compliance with good a all, free and correct function of all control syste the <b>TECH FORM 007</b> checklist and found the air tems to be cleared before flight.	ems and equipment
I fully understand and accept that I and no Airworthiness of this aircraft.	o other person or organisation is responsible f	for the
I acknowledge that the aircraft must not be Permit to Test Fly the aircraft.	be flown until such time as the Technical Mana	ager has issued a
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 observere-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 a	rea within 25nm (or other _		) radiu	JS
of		(incl	lude map if requi	ired)
for a period of not less than	25,40, (or oth	er, no	t less than 25) ho	ours.
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**