

AUSTRALIAN SPORT ROTORCRAFT ASSOCIATION INCORPORATED
F024 Acceptance & Listing Protocols - Basic Ultralight Gyroplanes
Record of Inspection and Evaluation Process
Statutory Declaration of Conformity with Standards



ABN 53 412 417 012

This document can either be filled out progressively as inspection and evaluation steps are completed or may be filled-in at the completion of the said inspection and evaluation by transferring data from contemporaneous records. Inspection and evaluation will need to be done in two parts. Form F024 part (a) must be completed and signed off before a Limited Flight Status Listing (Provisional) can be issued. This limited flight status is to allow the specified flight evaluation to be completed before a Full Flight Status Listing (Basic Ultralight) can be issued. The flight evaluation is recorded in Form F024 part (b)

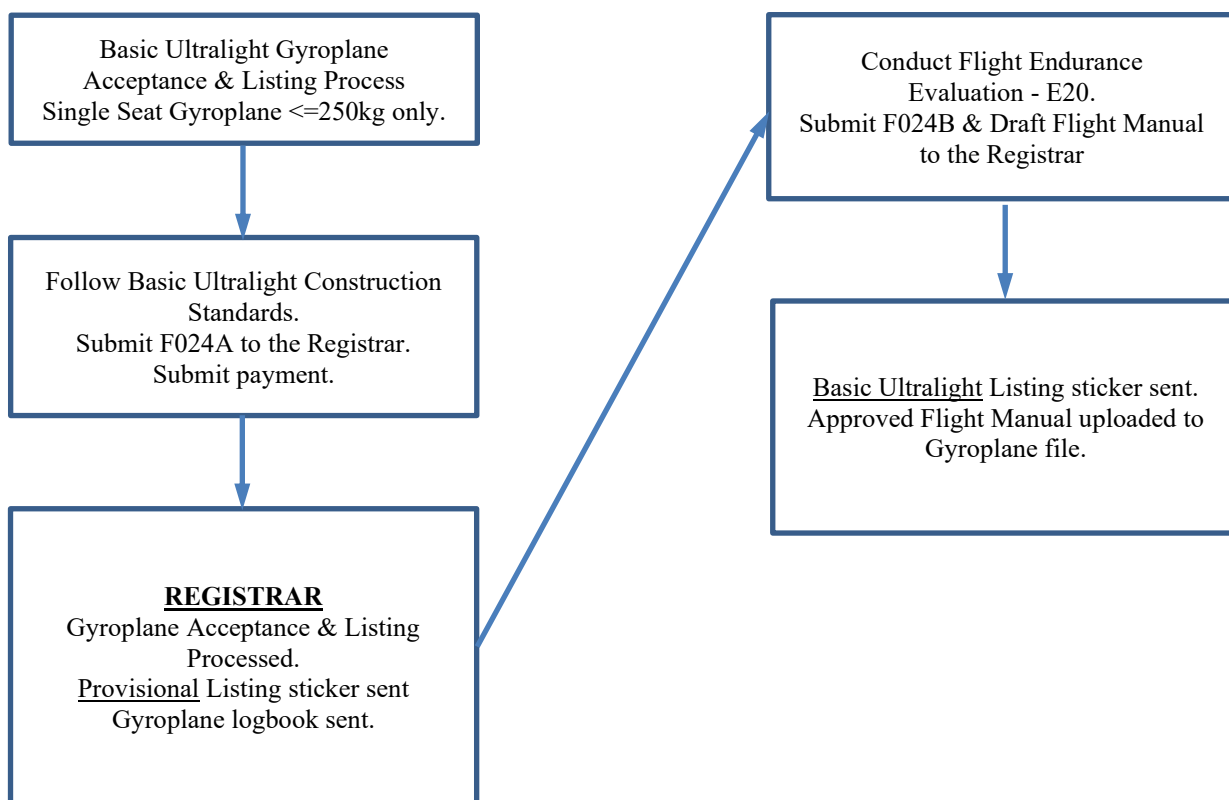
The person whose initials and signature are affixed to this document is to be that of the person who is the **Principal Constructor or a Factory Authorised Representative**. If flight evaluation is undertaken by a person who is not the principal constructor, the principal constructor **MUST** satisfy themselves of the integrity and accuracy of the performance-related information entered into this document. Where in-flight performance figures are concerned, the principal constructor shall ensure the accuracy of the figures either by contemporaneously and accurately recording instrument readings radioed to him or her by the pilot undertaking the relevant sequence or by the recording of instrument readings by electronic means such as readouts, traces or even a simple video camera recording of the relevant instrument or instruments. The principal constructor is also personally responsible for the accuracy and integrity of all external observations (such as take-off distance to 50' AGL, or landing distance from 50' AGL).

Form F024 is to be used in conjunction with the ASRA Construction Standards for Basic Ultralight Gyroplanes.

This form provides a means of recording that each inspection and evaluation has been satisfactorily completed. A space is provided after each item for the evaluator's initials.

The **Principal Constructor or a Factory Authorised Representative** is the **ONLY** person entitled to initial the '**PC Initials**' boxes. Several sections have '**TA Initials**' boxes to the right of the principal constructor initials boxes. These 2nd boxes are **ONLY** to be used by ASRA Technical Advisers who are checking the integrity of the Principal Constructor's assertion made in that relevant sub-section. For the purposes of this document, the Principal Constructor and the countersigning Technical Adviser cannot be the same person.

The flow chart below represents the steps to follow to obtain final Basic Ultralight Acceptance and Listing.



Form F024 part (a) Construction, Inspection and Evaluation before in-flight phase

Principal Constructor:

Some appendices are provided giving conversion information.

Gyroplane
Listing No.

G

Airframe
Serial No.

Subpart B

Weight and Balance

Initials

	PC	TA
B10. Hang Test ° nose down		----
Details of Hang Test entered into the Flight Manual		
B15. Maximum Selected Weight kg.		----
Maximum Weight entered into the Flight Manual		
B20. Empty Weight. kg		----
Empty Weight and conditions of test entered into the Flight Manual		
B30. Tilt Back Test Distance in cm between the propeller thrust line and the vertical centre of gravity		----
Single seater Full tank cm Empty tank cm		----
Printed/digital photos to be submitted with section (a)		

Subpart C

Structure

C15. Strength and Deformation requirements have been met		----
--	--	------

FLIGHT LOADS

C30. Limit Manoeuvring Load requirements have been met		----
--	--	------

CONTROL SURFACE AND SYSTEM LOADS

C55. Primary Control System requirements have been met		----
C60. The controls meet the Limit Pilot Force requirement		----

STABILISING AND CONTROL SURFACES

C75. Control Surfaces meet the required limit loads		----
---	--	------

GROUND LOADS

C85. The energy absorption requirements for of the Landing Gear have been met.		
<u>Note</u> the TA must witness the drop test.		

MAIN COMPONENT REQUIREMENTS

C90. Rotor Structure requirements have been met		----
---	--	------

EMERGENCY LANDING CONDITIONS

C100. The structural requirements for emergency landing situations have been met		----
C102. The Fatigue Strength requirements have been met		----
C104. The Special Factors of Safety requirements have been met		----

FUEL SYSTEM

	PC	TA
E30. General – The Fuel System installation is satisfactory		
E35. The Fuel Flow requirements have been met		----
E40. The quantity of Unusable Fuel has been determined and marked on the fuel gauge		
The unusable fuel quantity has been entered into the Flight Manual		
E45. The Fuel Tank(s) Integrity and surge characteristics are satisfactory		----
E55. The installation of the Fuel Tank(s) is satisfactory		
E60 (a). The Fuel Tank(s) is/are equipped with drainable sump(s) <input type="checkbox"/> or Sediment bowl(s) <input type="checkbox"/>		
E60 (b). The sump or sediment bowl drain can be locked in the closed position		
E65. The requirements for the Fuel Tank Filler have been met		
E70. The requirements for Fuel Tank Vents have been met		
E75. The requirements for a Fuel Strainer or Filter have been met		
E80. The requirements for the Fuel System Lines and Fittings have been met		

OIL SYSTEM

E90. The general requirements have been met		----
E95. The requirements for Oil Tank has been met		
E105. The requirements for the Oil Lines and Fittings have been met		

COOLING

E110. The requirements for Powerplant Cooling have been met		----
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EXHAUST SYSTEM

E120. The requirements for the exhaust and silencing system have been met		
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POWERPLANT CONTROLS AND ACCESSORIES

E135. The requirements for the Ignition Switches have been met		
E140. The requirements for Propeller Speed have been met		----
E145. The design of the Cowling and Nacelle is satisfactory		----

Subpart F – Equipment

INSTRUMENTS

F10. The required Flight and Navigation Instruments are satisfactory		
F15. The required Powerplant Instruments are satisfactory		

INSTRUMENTS INSTALLATION

F30. The requirements for the Pitot and Static Pressure Systems have been met.		
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ELECTRICAL SYSTEMS AND EQUIPMENT

F45. The requirements for Electric Cables and Equipment have been met		
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MISCELLANEOUS EQUIPMENT

F55. The requirements for the Airborne Radio and Radio Navigation Equipment have been met		
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Subpart G - Operating Limitations and Information

G20. The requirements for Powerplant and Propeller Limitations have been met		----
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Markings and Placards

G30. The requirements for Placards and/or Markings have been met		
G45. The requirements for the Fuel Quantity Indicator have been met		
G50 & G55. The requirements for Placards and/or Markings have been met		

AUSTRALIAN SPORT ROTORCRAFT ASSOCIATION INC

GYROPLANE ACCEPTANCE & LISTING FORM



ABN 53 412 417 012

CASA Regulations state that only current financial ASRA members are permitted to fly and list a Gyro

ASRA Membership No:	A	Gyroplane Listing No:	G	Airframe Serial No:
Registrant Given Names:		Registrant Family Name:		
Address:		Phone No:		
Town:		State:		P/Code:
Email:				

Cockpit:	<input type="checkbox"/> Open Frame	<input type="checkbox"/> Semi Enclosed	<input type="checkbox"/> Fully Enclosed	Empty weight including rotors:	
Places:	<input type="checkbox"/> One	<input type="checkbox"/> Two Side by Side	<input type="checkbox"/> Two Tandem	MTOW:	
Aircraft Status:	<input type="checkbox"/> Listed	<input type="checkbox"/> Lapsed Listing	<input type="checkbox"/> Destroyed	Gyroplane Primary Colour:	
Hang Test: 1 UP	_____ Degrees	<input type="checkbox"/> Nose up	Controls Fore/Aft Angle:	Controls Side/Side Angle:	Total Teeter Angle:
Hang Test: 2 UP	_____ Degrees	<input type="checkbox"/> Nose down			
Gyroplane Manufacturer:	_____		Model:	_____	
Main Frame Material:	_____	Size:	_____ mm	Mast Material:	_____
Frame Plates Material:	_____		Thickness:	_____ mm	
Vertical Tail Type & Area:	<input type="checkbox"/> Rudder & Fin	<input type="checkbox"/> Full Flying	<input type="checkbox"/> Twin Tail	<input type="checkbox"/> Tri Tail	
	Total Vertical Tail Area:	_____ m ²	Horizontal Distance from C of G:	_____ m	
Pitch Stabiliser Location & Area:	<input type="checkbox"/> In propeller slipstream	<input type="checkbox"/> Outside propeller slipstream			
	Stabiliser Area:	_____ m ²	Horizontal Distance from C of G	_____ m	
Rotor Head Manufacturer:	_____		Serial No:	_____	
Rotor Blade Manufacturer:	_____		Rotor Blade Model:	Length:	_____ ft
Hub Bar Serial No:	_____		Rotor Blade Serial Nos:	Blade 1	Blade 2
Propeller Manufacturer:	_____		Serial No:	Diameter:	_____ in
Engine Manufacturer:	Type:	_____	Engine No:	Engine Capacity:	_____ cc
Redrive Make:	_____		Serial No:	Ratio:	_____ : 1
Fuel Tank Manufacturer:	_____		Capacity:	_____ LTS	

Mandatory Instruments	<input type="checkbox"/> ASI	<input type="checkbox"/> Altimeter	<input type="checkbox"/> Fuel Indicator	<input type="checkbox"/> Yaw Indicator
Compliant Gyroplanes Mandatory Instruments	<input type="checkbox"/> Hour Meter	<input type="checkbox"/> Oil Pressure (4 stroke)	<input type="checkbox"/> Engine tacho	
	<input type="checkbox"/> Compass	<input type="checkbox"/> Voltmeter (Battery Ignition)	<input type="checkbox"/> Temperature	
Significant Extras	<input type="checkbox"/> GPS	<input type="checkbox"/> Transponder	<input type="checkbox"/> ELT	<input type="checkbox"/> VHF <input type="checkbox"/> UHF

Mandatory photos from the side

NOTE: Upon completion of the inspection above, complete the Statutory Declaration below, have the Technical Adviser complete the statement below, then forward (post or email) these together with the appropriate fee and photos to the ASRA Registrar at registrar@asra.org.au or to the address found on the www.asra.org.au website.

AUSTRALIAN SPORT ROTORCRAFT ASSOCIATION INC

Statutory Declarations Act 1959 (Commonwealth).

COMMONWEALTH OF AUSTRALIA

Statutory Declaration

I,
(insert printed full name of Principal Constructor) (insert occupation)

of
(insert residential address of Principal Constructor)

do solemnly and sincerely declare that:

- (1) in placing my initials in the check box adjacent to each sub-section and now upon finally signing this declaration, I hereby attest that the materials, construction techniques, fittings, structural configuration, and overall design of the gyroplane I seek to list as a Limited Flight Status gyroplane, for the flight performance evaluations specified in the ASRA document, Construction Requirements for Compliant Gyroplanes, has been carefully reviewed by me for compliance with the published standards.
- (2) the information contained in the narrative or comment portions of this record of inspection and evaluation has been acquired personally by me or under my supervision and I hereby attest that I have taken all reasonable steps to ensure its accuracy and reliability;

and I make this solemn declaration by virtue of the Statutory Declarations Act 1959, and subject to the penalties provided by that Act for the making of false statements in statutory declarations, conscientiously believing the statements contained in this declaration to be true in every particular

.....
(Signature of Principal Constructor)

.....
(Initials of Principal Constructor)

Declared at on the day of
(Place) (Date) (Month/Year)

Before me,
(signature of person witnessing declaration)

.....
(Print full name of witness)

.....
(Professional address)

.....
(category of entitlement to witness declarations. See next page)

The Statutory Declarations Regulations provide for a statutory declaration under the *Statutory Declarations Act 1959* to be made before the following persons:

- (1) a person who is authorised under a law in force in a State or Territory to practise as a member of any of the following professions:
- Chiropractor
 - Dentist
 - Legal practitioner
 - Medical practitioner
 - Nurse
 - Patent attorney
 - Pharmacist
 - Veterinary surgeon
- (2) any of the following persons:
- Agent of the Australian Postal Corporation who is in charge of an office supplying postal services to the public
 - Australian Consular Officer, or Australian Diplomatic Officer, (within the meaning of the *Consular Fees Act 1985*)
 - Bailiff
 - Bank officer with 5 or more continuous years of service
 - Building society officer with 5 or more years of continuous service
 - Chief executive officer of a Commonwealth court
 - Civil marriage celebrant
 - Clerk of a court
 - Commissioner for Affidavits
 - Commissioner for Declarations
 - Credit union officer with 5 or more years of continuous service
 - Holder of a statutory office not otherwise specified in this list
 - Judge of a court
 - Justice of the Peace
 - Magistrate
 - Master of a court
 - Member of the Australian Defence Force who is:
 - (a) an officer; or
 - (b) a non-commissioned officer within the meaning of the *Defence Force Discipline Act 1982* with 5 or more years of continuous service; or
 - (c) warrant officer within the meaning of that Act
 - Member of the Institute of Chartered Accountants in Australia, the Australian Society of Certified Practising Accountants or the National Institute of Accountants
 - Member of the Institute of Corporate Managers, Secretaries and Administrators
 - Member of the Institution of Engineers, Australia, other than at the grade of student
 - Member of:
 - (a) the Parliament of the Commonwealth; or
 - (b) the Parliament of a State; or
 - (c) a Territory legislature; or
 - (d) local government authority of a State or Territory
 - Minister of religion registered under Division 1 of Part IV of the *Marriage Act 1961*
 - Notary public
 - Permanent employee of:
 - (a) the Commonwealth or of a Commonwealth authority; or
 - (b) a State or Territory or of a State or Territory authority; or
 - (c) a local government authority; with 5 or more years of continuous service who is not otherwise specified in this list
 - Permanent employee of the Australian Postal Corporation with 5 or more years of continuous service who is employed in an office supplying postal services to the public
 - Person before whom a statutory declaration may be made under the law of the State or Territory in which the declaration is made
 - Police officer
 - Registrar, or Deputy Registrar, of a court
 - Senior Executive Service officer of the Commonwealth, or of a State or Territory, or of a Commonwealth, State or Territory authority
 - Sheriff
 - Sheriff's officer
 - Teacher employed on a full-time basis at a school or tertiary education institution

ASRA TECHNICAL ADVISERS RECORD OF VERIFICATION F024 part (a)

I hereby certify that I have undertaken an examination of the gyroplane subject of this Record and have inserted my initials in the relevant check boxes (where applicable) as an indication that (as far as can be ascertained by visual and/or manual examination) the entry made by the Principal Constructor in the sub-section adjacent to the check box appears to be true and correct.

.....
(Signature of TA)

.....
(Initials of TA)

.....
(Print Name of TA)

A.....
(ASRA Membership No)

.....
(Date)

***** Gyroplane will be listed as Provisional until the mandatory flight endurance, draft flight manual and the F024B have been submitted.**

Form F024 part (b) Flight and Performance Evaluation

Note: part (a) of this form must be completed and the gyroplane listed for limited flight status before commencing flight and performance evaluation.

Principal Constructor: **Listing No: G**.....

Evaluation Pilot: **ASRA Membership No. A**.....

Initials

PERFORMANCE

B40. Take-off Distance Without Prerotatorm. With Prerotatorm.
 The Take-off Distance entered into the Flight Manual

B45. Climb Rate Time taken to 1000 ftmin.
 The corrected sea level Climb Rate entered into the Flight Manual

B50. Minimum Sink RateKIAS Rate of decentft/Min
 Minimum Sink Rate @KIAS = ft/min entered into the Flight Manual

B52. Best Glide RatioKIAS Rate of decentft/Min
 Best Glide Ratio @KIAS = X.X:1 entered into the Flight Manual

B55. Actual straight-and-level steady top airspeed at 1000' agl at full throttle established as KIAS
 Actual straight-and-level full-throttle steady top IAS entered into the Flight Manual

B60. Minimum Controllable Speed for Level Flight (VMIN) determined asKIAS
 The (VMIN) entered into the Flight Manual

B65. Best Rate of Climb Airspeed (VY) determined asKIAS
 The details of (VY) entered into the Flight Manual

B70. Landing Distance from 50 ft altitudem atKIAS
 The Landing Distance entered into the Flight Manual

B75. Maximum Operating Altitude established asFeet
 The Maximum Operating Altitude entered into the Flight Manual

B80. Height/Velocity Envelope established asft atKIAS
 Height/Velocity Envelope Graph entered into the Flight Manual

		Initials	
		PC	TA

CONTROLLABILITY AND MANOEUVRABILITY

B85 (a) & (b). Controllability and Manoeuvrability is satisfactory
 B90. Pitch Control is satisfactory
 B95. Pitch Control Force is satisfactory

STABILITY

B100. General gyroplane stability is satisfactory
 B105. Longitudinal Stability is satisfactory
 B110. Lateral Stability is satisfactory

Initials

GROUND HANDLING

B120. Directional Control is satisfactory

B125. Taxying is satisfactory

B127. Ground Resonance is satisfactory

PC	TA

GENERAL

E20. Flight Endurance Evaluation completed satisfactorily

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OPERATING LIMITATIONS AND INFORMATION

G10. The requirements for Air-speed Limitations have been met

G25. The Gyroplane Flight Manual has been produced and a hardcopy and electronic copy (*.docx) have been supplied to the ASRA Registrar.

NOTE: Upon satisfactory completion of parts (a) and (b) of this form, complete the Statutory Declaration below, have the Technical Adviser complete the statement below, then forward (post or email) these together with the appropriate fee and photos to the ASRA Registrar at registrar@asra.org.au or the address found on the www.asra.org.au website.

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Statutory Declaration

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of
(insert residential address of Principal Constructor)

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- (1) in placing my initials in the check box adjacent to each sub-section and now upon finally signing this my declaration I hereby attest that the materials, construction techniques, fittings, structural configuration, and overall design and performance of the gyroplane I seek to list as a Limited Flight Status gyroplane, for the flight performance evaluations specified in the ASRA document Construction Requirements for Compliant Gyroplanes, has been carefully reviewed by me for compliance with the published standards.
- (2) the information contained in the narrative or comment portions of this record of inspection and evaluation has been acquired personally by me or under my supervision and I hereby attest that I have taken all reasonable steps to ensure its accuracy and reliability;

and I make this solemn declaration by virtue of the Statutory Declarations Act 1959, and subject to the penalties provided by that Act for the making of false statements in statutory declarations, conscientiously believing the statements contained in this declaration to be true in every particular.

.....
(Signature of Principal Constructor)

.....
(Initials of Principal Constructor)

Declared at on the day of
(Place) (Date) (Month/Year)

Before me,
(signature of person witnessing declaration)

.....
(Print full name of witness)

.....
(Professional address)

.....
(category of entitlement to witness declarations. See next page)

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 - Dentist
 - Legal practitioner
 - Medical practitioner
 - Nurse
 - Patent attorney
 - Pharmacist
 - Veterinary surgeon
- (2) any of the following persons:
- Agent of the Australian Postal Corporation who is in charge of an office supplying postal services to the public
 - Australian Consular Officer, or Australian Diplomatic Officer, (within the meaning of the *Consular Fees Act 1985*)
 - Bailiff
 - Bank officer with 5 or more continuous years of service
 - Building society officer with 5 or more years of continuous service
 - Chief executive officer of a Commonwealth court
 - Civil marriage celebrant
 - Clerk of a court
 - Commissioner for Affidavits
 - Commissioner for Declarations
 - Credit union officer with 5 or more years of continuous service
 - Holder of a statutory office not otherwise specified in this list
 - Judge of a court
 - Justice of the Peace
 - Magistrate
 - Master of a court
 - Member of the Australian Defence Force who is:
 - (a) an officer; or
 - (b) a non-commissioned officer within the meaning of the *Defence Force Discipline Act 1982* with 5 or more years of continuous service; or
 - (c) warrant officer within the meaning of that Act
 - Member of the Institute of Chartered Accountants in Australia, the Australian Society of Certified Practising Accountants or the National Institute of Accountants
 - Member of the Institute of Corporate Managers, Secretaries and Administrators
 - Member of the Institution of Engineers, Australia, other than at the grade of student
 - Member of:
 - (a) the Parliament of the Commonwealth; or
 - (b) the Parliament of a State; or
 - (c) a Territory legislature; or
 - (d) local government authority of a State or Territory
 - Minister of religion registered under Division 1 of Part IV of the *Marriage Act 1961*
 - Notary public
 - Permanent employee of:
 - (a) the Commonwealth or of a Commonwealth authority; or
 - (b) a State or Territory or of a State or Territory authority; or
 - (c) a local government authority; with 5 or more years of continuous service who is not otherwise specified in this list
 - Permanent employee of the Australian Postal Corporation with 5 or more years of continuous service who is employed in an office supplying postal services to the public
 - Person before whom a statutory declaration may be made under the law of the State or Territory in which the declaration is made
 - Police officer
 - Registrar, or Deputy Registrar, of a court
 - Senior Executive Service officer of the Commonwealth, or of a State or Territory, or of a Commonwealth, State or Territory authority
 - Sheriff
 - Sheriff's officer
 - Teacher employed on a full-time basis at a school or tertiary education institution

ASRA TECHNICAL ADVISERS RECORD OF VERIFICATION F024 part (b)

I hereby certify that I have undertaken an examination of the gyroplane subject of this Record and have inserted my initials in the relevant check boxes (where applicable) as an indication that (as far as can be ascertained by visual and/or manual examination) the entry made by the Principal Constructor in the sub-section adjacent to the check box appears to be true and correct.

.....
(Signature of TA)

.....
(Initials of TA)

.....
(Print Name of TA)

A.....
(ASRA Membership No)

.....
(Date)