#### AUSTRALIAN SPORT ROTORCRAFT ASSOCIATION INCORPORATED

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



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) can be issued. The flight evaluation is recorded in Form F024 part (b)

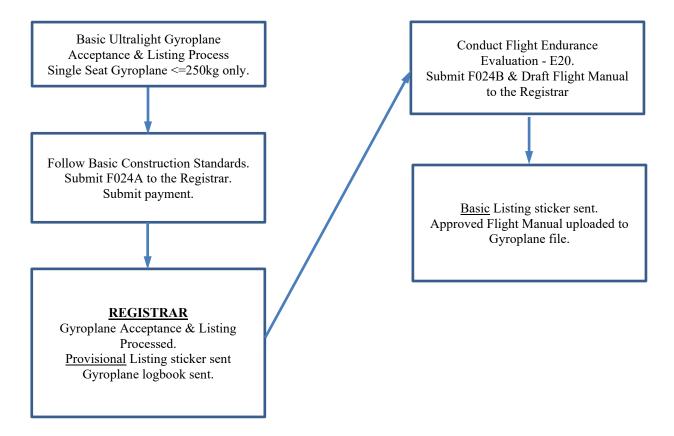
The person whose initials and signature are affixed to this document is to be that of the person who is the **Principal Constructor or a Factory Authorised Representative**. If flight evaluation is undertaken by a person who is not the principal constructor, the principal constructor MUST satisfy themselves 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 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 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.  Airframe Serial No.		
Outrood B	114	:-1-
Subpart B Weight and Balance	PC	ials TA
B10. Hang Test ° nose down	10	
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.		
Note the TA must witness the drop test.		
MAIN COMPONENT REQUIREMENTS		
C90. Rotor Structure requirements have been met		
EMERGENCY LANDING CONDITIONS		<u>.                                    </u>
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		

Subpart D	Init	ials
Design and Construction	PC	TA
D10. The requirements for Materials have been met		
D20. The requirements for Locking of Connections have been met		
D30. Provision for Inspection is satisfactory		
D70. Cable factor requirements met by		
CONTROL SURFACES AND ROTORS		
D80. The Rotor Drainage requirements have been met		
D85. The requirements for Control Surfaces and rotors has been met		
D90. The requirements for rudder hinges have been met		
D95. The requirements of Mass Balance have been met		
D100 (b). Rotor Hub Tilt Range Fore/Aft deg Side/Side deg		
D100 (c). Hub Bar Teeter Range degrees		
D102 Rotor Clearance mm Clear of Prop mm Clear of Tail		
D105. Rotor Head Bearings are satisfactory This has been determined by:		
D107.The Rotor Disc Loading is		
CONTROL SYSTEMS		
D110. Controls movement satisfactory		
D115. Controls stops are satisfactory		
D125. Trim System is satisfactory		
D135. Control System is satisfactory		
D145. Cable Systems are satisfactory		
D147. The suitability of Swivel Rod Ends has been determined by:		
COCKPIT DESIGN		
D155. The General requirements for Cockpit Design have been met		
D160. The Cockpit View is satisfactory		
D165. The Windshields and Windows are satisfactory		
D170. The location of the Cockpit Controls is satisfactory		
D185. The requirements for the Seat and Safety Harness have been met		
D190. The Protection from Injury requirements have been met		
D200. The Emergency Exit requirements have been met		
D205. The Ventilation requirements have been met		
Subpart E		
Powerplant - GENERAL		
E5. Powerplant Installation is satisfactory		
E15 The design of the rotor spin up and brake system is satisfactory		
Limitations on the use of the spin up or brake system have been entered into the Flight Manual		
E25. The Propeller Clearance is satisfactory		

Initials **FUEL SYSTEM** PC TΑ 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) or Sediment bowl(s) 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 Tanks 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 **EXHAUST SYSTEM** E120. The requirements for the exhaust and silencing system have been met **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. **ELECTRICAL SYSTEMS AND EQUIPMENT** F45. The requirements for Electric Cables and Equipment have been met MISCELLANEOUS EQUIPMENT F55. The requirements for the Airborne Radio and Radio Navigation Equipment have been met Subpart G - Operating Limitations and Information G20. The requirements for Powerplant and Propeller Limitations have been met 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. The Control Markings have been met

### **AUSTRALIAN SPORT ROTORCRAFT ASSOCIATION INC**

GYROPLANE ACCEPTANCE & LISTING FORM



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

ASRA Membershi No:	<sup>p</sup> A		Gyroplaı No:	ne Listing	G	Airframe Serial No:		
Registrant Given Names:					Registrant Family Name:			
Address:					Pho	ne No:		
Town:					State:	P/Code	e:	
Email:								
Cockpit:	Open	Frame	Semi En	closed	Fully Enclosed	Empty weight including rotors:		kg
Places:	One		Two Side	e by Side	Two Tandem	MTOW:		kg
Aircraft Status:	Listed	d [	Lapsed	Listing	Destroyed	Gyroplane Primary Colour:		
Hang Test: 1 UP Hang Test:		=	Nose up Nose down	Controls Fore/Aft Angle:	Sid	ntrols le/Side gle:	Total Teeter Angle:	
2 UP Gyroplane Manufacturer:		•		Ü	Model:		Model No:	
Main Frame Material	:		Size:		mm Mast Mat	terial:	Size:	mm
Frame Plates Material:				Thickness:	n	nm		
Vertical Tail Type &	Rudde			Full Flyir	ng 🔲 Twin	n Tail	Tri Tail	
Area:	Total Vertic Tail Area:	cal		m <sup>2</sup>	Horizontal Distance	e from C of G:		m
Pitch Stabiliser	In prop	eller slipstrea	am		Outside propel	ler slipstream		
Location & Area:	Stabiliser A	\rea:		$m^2$	Horizontal Distar	nce from C of G	m	
Rotor Head Manufacturer:					Serial No:			
Rotor Blade Manufacturer:				F	Rotor Blade Model:	Le	ngth:	ft
Hub Bar Serial No:	•			Rotor Blade Serial Nos:	Blade 1	Blade 2		
Propeller Manufacturer				rial No:		Diameter:	in	
Engine Manufacturer		Туре:	Enç	gine No:		Engine Capacity:	cc	
Redrive Make:			Ser	rial No:		Ratio:	: 1	
Fuel Tank Manufacturer			Сар	oacity:	LTS			
Mandatory Instru	ments	ASI		Altimete	er	☐ Fuel Indicator	☐ Yaw Ind	icator
Compliant Gyrop	1	☐ Hour Met	er	_ <del>_</del>	ssure (4 stroke)	☐ Engine tacho		
Mandatory Instru		☐ Compass	;	☐ Voltmet	er (Battery Ignition)	☐ Temperature		
Significant Extras	3	☐ GPS		☐ Transpo	onder 🔲 I	ELT	☐ VHF	UHF
Mendata::::	hotos fra	the eld-						
Mandatory p	motos trom	ı ıne siae						

**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 <a href="mailto:registrar@asra.org.au">registrar@asra.org.au</a> or to the address found on the <a href="https://www.asra.org.au">www.asra.org.au</a> website.

#### **AUSTRALIAN SPORT ROTORCRAFT ASSOCIATION INC**

Statutory Declarations Act 1959 (Commonwealth).

# COMMONWEALTH OF AUSTRALIA Statutory Declaration

I, ir	nsert printed full name of Principal Constructor)	(insert occupation)	)
of (in:	sert residential address of Principal Constructor)		
do s (1)	in placing my initials in the check box adjace this my declaration, I hereby attest that the r configuration, and overall design of the gyro gyroplane, for the flight performance evalua Requirements for Compliant Gyroplanes, ha the published standards.	materials, construction plane I seek to list as tions specified in the A	techniques, fittings, structural a Limited Flight Status ASRA document, Construction
(2)	the information contained in the narrative or evaluation has been acquired personally by I have taken all reasonable steps to ensure	me or under my supe	rvision and I hereby attest that
	and I make this solemn declaration by visusities and I make this solemn declaration by that		
(Sign	statutory declarations, conscientiously be declaration to be true in every particular	_	nts contained in this
	declaration to be true in every particular	(Initials of Pri	nts contained in this
	declaration to be true in every particular	(Initials of Pri	nts contained in this
Dec	declaration to be true in every particular	(Initials of Pri	nts contained in this
Dec Befo	declaration to be true in every particular ature of Principal Constructor) lared at(Place)	(Initials of Pri	nts contained in this
Dec Befo	ature of Principal Constructor)  lared at	(Initials of Pri	nts contained in this

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 Practicing 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.

Princ	Principal Constructor:Listing No: GListing No: G				
Evalu	uation Pilot:	ASRA Membership No	. A		
			Initials		
PERI	FORMANCE		PC	TA	
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 Rate	ft/Min			
		Minimum Sink Rate @KIAS = ft/min entered into the Flight Manual			
B52.	Best Glide Ratio	ft/Min			
		Best Glide Ratio @KIAS = X.X:1 entered into the Flight Manual			
B55.	Actual straight-and-le	vel steady top airspeed at 1000' agl at full throttle established as KIAS			
	Actu	ual straight-and-level full-throttle steady top IAS entered into the Flight Manual			
B60.	Minimum Controllable	e Speed for Level Flight (VMIN) determined asKIAS			
		The (VMIN) entered into the Flight Manual			
B65.	Best Rate of Climb Ai	irspeed (VY) determined asKIAS			
		The details of (VY) entered into the Flight Manual			
B70.	Landing Distance from	m 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 Envel	ope established asft atKIAS			
		Height/Velocity Envelope Graph entered into the Flight Manual			
CON	TROLLABILITY AND	MANOEUVRABILITY			
B85 (	a) & (b). Controllabilit	y and Manoeuvrability is satisfactory			
B90.	Pitch Control is satisfa	actory			
B95.	Pitch Control Force is	satisfactory			
STAE	BILITY	<del></del>			
B100	. General gyroplane s	stability is satisfactory			
B105	. Longitudinal Stability	y is satisfactory			
B110	. Lateral Stability is sa	atisfactory			

Initials **GROUND HANDLING** PC TA B120. Directional Control is satisfactory ----B125. Taxying is satisfactory ----B127. Ground Resonance is satisfactory ----**GENERAL** E20. Flight Endurance Evaluation completed satisfactorily **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.

### **AUSTRALIAN SPORT ROTORCRAFT ASSOCIATION INC**

Statutory Declarations Act 1959 (Commonwealth).

# COMMONWEALTH OF AUSTRALIA Statutory Declaration

I, (ir	nsert printed full name of Principal Constructor)	(insert o	ccupation)	
of	sert residential address of Principal Constructor)			
do s (1)	in placing my initials in the check box adjathis my declaration I hereby attest that the configuration, and overall design and per Flight Status gyroplane, for the flight performs compliance with the published standards the information contained in the narrative evaluation has been acquired personally I have taken all reasonable steps to ensure	e materials, const formance of the g formance evaluation t Gyroplanes, has tor comment portion by me or under m	ruction techniq yroplane I see ons specified ir been carefully ions of this rec	ues, fittings, structural k to list as a Limited the ASRA document reviewed by me for ord of inspection and
	and I make this solemn declaration by subject to the penalties provided by the statutory declarations, conscientiously declaration to be true in every particular to the statut of the s	nat Act for the ma y believing the s lar.	aking of false	statements in
(Sign	ature of Principal Constructor)	(In	itials of Principal Co	nstructor)
Dec	lared at(Place)	on the	day of	(Month/Year)
Befo	ore me,	<b></b> .		
(Print	full name of witness)			
(Profe	essional address)			
(cate	gory of entitlement to witness declarations. See next pag	ie)		

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 Practicing 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)
	A
(Print Name of TA)	(ASRA Membership No)
(Date)	