	Form 201 - Glider Annual Maintenance Checklist	
	Aircraft Registration : **EI-**	Sheet 1 of 8

MPLA / G
Annual (Sailplanes):
Perform Task Nos. 1 – 58

Maintenance Organisation / Pilot-Owner	
Approval Reference or IGSA Certifying Staff No:	
Site where maintenance being accomplished:	**Gowran Grange**

NOTE: Ensure all details are as in the AMP

Sailplane Registration: EI -

	Type	Serial Number	Total Flying Hours	Hours since new / overhaul
Sailplane				

Check Start Date		**Check Completion Date**	

Maintenance Manual Reference **Note:** Maintenance manuals must be those specified in the maintenance contract.	**Issue / Revision No.**	**Date**
Airframe		

HF

All Maintenance Data used must be to the latest revision status.
All tools and ground equipment must be removed from the aircraft flowing maintenance and accounted for.
Correct grade of oil and grease used where necessary. All tank caps and covers closed as required.
If distracted in the performance of a task consider going back three steps to stop any omission.
Consider the effects of Complacency, Knowledge, Teamwork, Distractions, Fatigue, Lack of Resources, Pressure, Lack of Assertiveness, Lack of Communication, Norms (deviation from procedure), Stress and Lack of Awareness.

Final Checks (include with all checks except for the Pre-Flight Check and Check A

No.	Description	Inspection Detail	Task	Performed
0	All Tasks - General	Execute all items of a Daily Inspection. Inspect all bolted connections and locking devices. Check all metal parts for adequate greasing and rust prevention Inspect for security, damage, wear, integrity, drain/vent holes clear, signs of overheating, leaks, chaffing, cleanliness and condition as appropriate to the particular task. Whilst checking GRP composite structures, check for signs of impact or pressure damage that may include underlying damage. The manufacturer's maintenance manual must be used for specific maintenance instructions. The aircraft must be clean prior to starting an inspection.		
1	Nose Fairing	Inspect for evidence of impact with ground. Inspect nose tow release unit and aperture.	INS CHK	
2	Pot Pitot Ventilator	Alignment of probe. Operation of ventilator.	INSP INSP	
3	Front skid / Nose Wheel / Shock Absorber	Inspect for evidence of heavy/hard landings. Skid security and wear. Wheel, tyre and wheel box. Check tyre pressure.	INSP INSP INSP SVCE	
4	Front Fuselage Structure	Check external surface, gel coat, fabric and paintwork. Check frames, formers, tubular structure, skin, fairings and attachments. Inspect for signs of corrosion on tubular framework.	INSP INSP SVCE	
5	Release	Inspect nose and CG hook assemblies.	CHK	

	Hook Assemblies	Check operational life (2,000 flights). Carry out operational test (from all release controls).	CHK OP/C	
6	Main Wheel / Brake Assembly	Check for integrity of hydraulic seals and leaks in pipe work. Check life of hydraulic hoses and components if specified by the manufacturer. Check disk / drum wear. Check the brake adjustment. *Caution: Brake dust may contain asbestos.* Check brake fluid level – replenish if necessary. Check satisfactory brake operation. *Caution: Check that correct type of brake fluid has been used and observe safety precautions.*	INSP CHK CHK SVCE SVCE SVCE OP/C	
7	Canopy / Lock / Jettison	Inspect canopy and frame and transparencies for cracks, unacceptable distortion and discoloration. Check operation of all catches and locks. Carry out an operational test of the canopy jettison system from all positions.	INSP INSP OP/C	
8	Harnesses	Inspect all harness for condition and wear of all fastenings, webbing and fitting. Check for any life limitations imposed by the manufacturer.	INSP CHK	
9	Seat Pan Assemblies	Inspect Seats. Check that all energy absorbing cushions are fitted correctly. Check that all seat adjustment mechanisms fit and lock correctly.	INSP INSP OP/C	
10	Cockpit floor Structures	Check floor structures for integrity.	INSP	
11	Rudder Pedal Assemblies	Inspect Rudder Pedal assembly and adjusting mechanism. Lubricate	CHK SVCE	
12	Rudder Control Circuit / Stops	Inspect rudder control rods/ cables. Lubricate Check that the control stops are contacting and secure. Pay particular attention to wear and security of liners and cables in “S” tubes.	INSP SVCE CHK INSP	
13	Elevator Control Circuit / Stops	Inspect elevator control rods/ cables. Lubricate Check that the control stops are contacting and secure. Inspect self-connecting control devices.	INSP SVCE CHK INSP	
14	Aileron Control Circuit / Stops	Inspect aileron control rods/ cables. LUBRICATE Check that the control stops are contacting and secure. Inspect self-connecting control devices.	INSP SVCE INSP INSP	
15	Trimmer Control Assemblies	Inspect trimmer control rods/ cables. Check friction/locking device.	INSP CHK	
16	Air Brake Control Circuit	Inspect air-brake control rods/ cables. Lubricate Inspect self-connecting control devices. Check friction/locking device (if fitted).	INSP SVCE INSP CHK	
17	Wheel Brake Controls	Inspect wheel brake control rods/ cables. If combined with airbrake lever, ensure correct rigging relationship. Check parking brake operation if fitted.	SVCE CHK INSP	
18	Instrument Panel Assemblies	Check instrument panel and all instruments for damage, wear and security. Check security of all leads and tubes as fitted to each instrument. Check that instrument readings are consistent with ambient conditions. Check marking of all switches, fuses, and circuit breakers. Check operation of all instruments in accordance with manufacturers’ instructions as much as is practicable.	INSP INSP CHK CHK FC/C	
19	Pitot/ Static System	Inspect pitot probes, static ports, all tubing (as accessible) for security, damage cleanliness and condition. Drain any water from condensate drains.	INSP SVCE	
20	ASI Calibration	Check ASI calibration is up-to-date in accordance with manufacturer’s instructions.	CHK	
21	Electrical Installation / Fuses	Check all electrical wiring for condition. Check for signs of overheating and poor connections. Check fuses/ trips for condition & correct rating.	INSP INSP INSP	
22	Battery / Corrosion	Check battery mounting for security and operation of clamp. Check for evidence of electrolyte spillage and corrosion. Check that the battery has the correct fuse fitted.	INSP INSP CHK	
23	Oxygen	Inspect the oxygen system.	INSP	

	System	Check the bottle hydrostatic expiry date in accordance with manufacturers recommendations. Ensure that the oxygen installation is recorded on the weight and CofG schedules. Check system for cleanliness. (Caution: Observe all safety precautions)	CHK CHK INSP	
24	Radio Installation/ Placarding	Check radio installation, microphone, loudspeaker and intercom if fitted. Carry out ground functional test. Check that call-sign placard is fitted. Record radio type.	INSP OP/C INSP	
25	Water Ballast System	Check water ballast system, wing and tail tanks as appropriate. Check filling points, level indicators, vents, dump and frost drains for operation and leakage. If loose bladders are used, check for leaks and expiry date if applicable.	INSP OP/C CHK	
26	Removable Ballast Installation	Check removable ballast mountings and securing devices for condition. Check that ballast weights are painted a conspicuous colour. Check that provision is made for the ballast on the loading placard.	INSP INSP INSP	
27	Speed/ Wt./ Manoeuvre Placards	Check placard(s) is/are up-to-date, legible and accurately reflects the status of the aircraft	CHK	
28	Wing Attachments	Inspect the wing structural attachments. Check for damage, wear and security. Check for rigging damage. Check condition of wing attachment pins.	INSP INSP INSP INSP	
29	Control Systems in Centre Section	Check Lubricate	INSP SVCE	
30	Equipment Stowed in Centre Section	Check for security and condition. Check validity of any safety condition. Check manufacturer's data plates.	INSP CHK CHK	
31	Centre Section Fairing	Inspect for security, damage and condition.	INSP	
32	Mainplane Struts / Wires	Inspect struts for damage and internal corrosion. Check external surface, gel coat, fabric and paintwork	INSP INSP	
33	Undercarriage/suspension	Check springs, bungies, shock absorbers and attachments. Check for signs of damage. Service strut if applicable.	INSP INSP SVCE	
34	Undercarriage/ Retraction system	Check retraction mechanism and controls, warning system if fitted, gas struts, doors and linkages/springs, over-centre locking device. Perform actuating test.	INSP SVCE OP/C	
35	Tailplane Attachments	Check tailplane attachments for security and integrity. Lubricate	INSP SERVCE	
36	Fin Structure	Check fin structure for integrity. In particular check for cracks at the fin/fuselage junction. Check fin ballast tank.	INSP INSP	
37	Rudder Assembly & Hinges	Check rudder assembly, hinges, attachments and balance weights. Lubricate hinges	INSP SVCE	
38	Tailplane / Elevator Assembly	With tailplane derigged, check tailplane and attachments, self-control and manual attachments. Check pivots and bearings for lubrication and security.	INSP INSP SVCE	
39	Tailskid / Wheel	Inspect for evidence of hard/heavy landings. Check skid wear. Inspect wheel, tyre and wheel box. Check bond of bonded skids. Check tyre pressure.	INSP INSP INSP INSP SVCE	
40	Mainplane structure / port	Check mainplane structure external and internally as far as possible. Check gel coat or fabric covering. Check registration marks are correctly displayed. Check fore and aft play of the wings.	INSP INSP CHK CHK	
41	Aileron / Hinge Assembly -	Inspect aileron assembly, hinges, control connections, springs/bungies, tapes and seals. Lubricate hnges and bearings	INSP SVCE	

	Port	Ensure that seals do not impair full range of movement.		CHK	
42	Airbrake / Spoiler Assembly - Port	Inspect airbrake/spoiler panel(s), operating rods, closure springs, stops and friction devices as fitted.		INSP SVCE OP/C	
43	Flaps (port & starboard)	Check flap system & controls. Inspect self-connecting devices.		INSP SVCE	
44	Mainplane structure / starboard	Check mainplane structure external and internally as far as possible. Check gel coat or fabric covering. Check fore and aft play of the wings.		INSP INSP INSP	
45	Aileron / Hinge Assembly - Starboard	Inspect aileron assembly, hinges, control connections, springs/bungees, tapes and seals. Ensure that seals do not impair full range of movement.		INSP SVCE CHK	
46	Airbrake / Spoiler Assembly - Starboard	Inspect airbrake/spoiler panel(s), operating rods, closure springs, stops and friction devices as fitted.		INSP SVCE	
47	Range of Controls - Checked	Check & record range of control deflections. Check free play.		FC/C CHK	
48	Drag Chutes	Inspect the parachute, packing & release mechanism. Check repackaging date.		INSP CHK	
49	Duplicate Inspections	Record each item requiring a duplicate inspection on a separate worksheet and complete prior to releasing the aircraft back into service.			
50	Bonding/ Vents/ Drains	Check all bonding leads and straps. Check that all vents and drains are clear from debris.		INSP INSP	
51	Lubrication	Lubricate aircraft in accordance with manufacturer's requirements.		SVCE	
52	Cleanliness & Loose Articles	Check under cockpit floor/ seat pan for debris and foreign items.		INSP SVCE	
53	Mandatory Mods / Inspections	Check for compliance of all Mandatory Modifications, Airworthiness Directives and inspections relevant to the airframe, accessories and equipment. Record compliance in the logbook. Reference sources include: Maintenance Programme		CHK	
54	Colour Coding of Controls	Ensure that the controls are clearly colour coded as follows: Tow Release: Yellow Airbrakes: Blue Trimmer: Green Canopy Normal Operation: White Canopy Jettison Operation: Red Other Controls: Clearly marked but not using any of the above colours.		INSP	
55	Logbook Entries up to Date	Ensure that all flying records are entered and up-to-date.		CHK	
56	Identification Markings Displayed	Check fuselage side and under-wing markings are correct, in place and in accordance with SI 634 of 2005.		CHK	
57	Manufacturer's Recommendations and Life Inspections	Review the manufacturer's maintenance schedules for the airframe to establish whether any additional work, servicing or preservation action is required . Check the airframe life inspection status (3,000 hour inspections etc.).		CHK	
58	Flight Manual	Verify that the Aircraft Flight Manual or Operating Handbook is at the latest revision.		CHK	
59	Hrs. Flown	Hours as of this inspection	Hours:	CHK	
60	No. of Launches	Launches as of this inspection	Launches:	CHK	
61	Weight and Balance	Review weighing record to establish accuracy against installed equipment. Check date of last weighing (maximum period between weighings is 8 years).	Date of last weighing: Empty Weight (Kg): Empty CofG aft of datum (mm):	CHK	

	Form 201 - Glider Annual Maintenance Checklist	
	Aircraft Registration : **EI-**	Sheet 5 of 8

Additional Tasks from Maintenance Data

No.	Area	Task	Type

Notes:

Certifying Person Refer to Section 7.3

Performers must be proven competent to carry out maintenance tasks to any standard specified in the maintenance data and will notify supervisors of defects requiring rectification to re-establish required airworthiness standards.

MPLA / G
Annual – Additional Tasks Sailplanes (Turbo)
Perform Task Nos. 1 – 30

#	Description	Inspection Detail	Task	Performed
All tasks to be certified on IGSA Inspection Report Form 200				
0	All Tasks - General	Inspect for security, damage, wear, integrity, drain/vent holes clear, signs of overheating, leaks, chaffing, cleanliness and condition as appropriate to the particular task. The manufacturer's maintenance manual must be used for specific maintenance instructions. The aircraft must be clean prior to starting an inspection.		
1	Engine Pylons, Mountings & Engine Stops	Inspect mountings for delamination + damage Inspect pylons for cracks Inspect condition of rubber shock mounts Check engine compartment & fire sealing. Check compliance with Airworthiness Notice #40 re carbon monoxide contamination. Check limit stops on retractable pylons. Check restraint cables.	INSP INSP INSP INSP CHK OP/C INSP	
2	Gas Strut	Look for leaks Check correct operation + security Look for chafing Check wiring is clear and tension free during extend / retract sequences	INSP OP/C INSP OP/C	
3	Electric Actuator	Check correct operation + security Inspect actuator, motor, spindle drive and mountings.	OP/C INSP	
4	Electric Wiring	Inspect all wiring. Look for chafing Check security Check wiring is clear and tension free during extend / retract sequences	INSP INSP INSP INSP	
5	Fuel Tank	Look for leaks Check for water contamination Check for glass fibre residue Check mountings and tank integrity. Check fuel level indicator if fitted.	INSP INSP INSP INSP OP/C	
6	Fuel Pipes & Vents	Look for leaks Look for chafing. Check all fuel pipes especially those subject to bending during extension and retraction of the engine/pylon. Check vents clear. Ensure overboard drains do not drain into the engine compartment. Check self-sealing.	INSP INSP INSP INSP INSP INSP	
7	Fuel Cock or shut-off valve	Check for smooth, free operation & indications.	INSP	
8	Fuel Vents	Check opening is clear	INSP	
9	Fuel Pumps & Filter	Clean or fuel filters as recommended by the manufacturer. Check operation of the fuel pumps for engine supply or tank replenishment. Check fuel pump controls & indicators.	SVCE OP/C INSP	
10	Decompression Valves & operating Mechanism	Inspect the decompression valve and operating control.	INSP OP/C	
11	LT & HT Harnesses & Magneto or coil	Inspect HT & LT wiring, connectors and spark plug caps. Check magneto to engine timing. Check impulse coupling operation.	INSP INSP OP/C	
12	Spark Plugs +	Remove, clean, set gap + refit spark plugs. It is recommended to replace spark plugs annually.	SVCE	

	Harness	Inspect and refit harness	INSP	
13	Propeller + Hub	Inspect blades for damage Check for ease of operation Lubricate as necessary Inspect hub, folding mechanism brake, pitch change mechanism and stow sensors. Check the torque of the propeller bolts.	INSP OP/C SVCE SVCE CHK	
14	Cable Guides, including Engine Doors	Check condition, function & tension of cables. Check rods & cams. Lubricate as necessary	CHK INSP SVCE	
15	Safety Springs	Check condition + attachment to operating wires	INSP	
16	Extension/ Retraction Mechanism	Check condition + function Check extension & retraction times are within the limits as specified by the manufacturer. Check light indications and interlocks are functioning correctly. Lubricate	OP/C OP/C OP/C SVCE	
17	Exhaust System	Inspect for cracks, particularly at shock mounts & welded joints Check security	INSP INSP	
18	Engine Installation	Clean Inspect engine and all accessories. Carry out compression test and record results. Check all nuts, bolts and their locking position Inspect for leaks and cracks	SVCE INSP OP/C INSP INSP	
19	Engine Instruments	Inspect all engine instruments and controls. Check control unit, mounts, bonding and connections. Carry out internal self-test if fitted. Check correct indications	INSP INSP OP/C OP/C	
20	Glider General	Check security on all items that could vibrate loose Security and condition of engine viewing mirror	INSP INSP	
21	Engine Batteries	Check condition.	INSP	
22	Engine Operating Placards	Check that the correct placard is in accordance with the flight manual , is legible and is prominently displayed in the cockpit.	INSP	
23	Glider-Engine Performance Air Test (note 1)	Engine Performance Air Test (SSPS only) (Gain 2000ft in 10 minutes. Start at 2000ft) SLPS and TM according manufacturer's specifications	OP/C OP/C	
24	Oil /Fuel / Exhaust Leaks	Check after flight test	OP/C	
25	Mandatory Mods / Inspections	Check for compliance of all mandatory modifications, airworthiness directives and inspections applicable to the engine, propeller, accessories & equipment. Record compliance in the logbook.	CHK	
26	Log Book Entries	Complete as necessary	CHK	
27	Limit Switches	Check operation of all limit switches and strike plates. Ensure these have not been damaged by impact.	OP/C INSP	
28	Manufacturer's Recommendations	Review manufacturer's maintenance schedules for the engine/propeller to establish if any additional work is required.	CHK	
29	Lubrication	Change engine oil and filter. Replenish oil and additive tanks.	SVCE	
30	Throttle	Check throttle friction control.	OP/C	
31	Loose objects	Check for tools and other loose objects removed after maintenance	CHK	