

GOAT - ASSEMBLY / MANUFACTURING / CONDITION INSPECTION HYBRID CHECKLIST:

Doc Rev 20200505

Date of Inspection:		General Inspection: Inspect the entire system. Look specifically for any deformation, defects, damage, cracks, dents, corrosion, dirtiness or abuse. Inspect general condition of all structural members, welds & assembly. If deviations are found, consult factory for replacement & Quality Assurance Sytem for further procedure. Reference AC 43.13(b) for specific procedures & mitigation of discrepancies along with vendor manuals as necessary.
Aircraft Serial Number:		
Aircraft N-number:		
Engine Serial Number:		
Wing Serial Number:		
What does a * mean?	Part or Assembly typically removed, inspected & replaced at time of inspection.	

DOCUMENTATION:	MINIMUM RESOURCES ON HAND:	*	HAVE	N/A	...	YOU
RESOURCES FOR INSPECTION	Aircraft Maintenance Logbook					
	Access to Rotax Manuals & Bulletins					
	Access to FAR Part 43 Appendix D					
	Access to FAA AC 43.13B					
	Access to Northwing, BRS, Propeller Mfg and Other Manuals & Bulletins					
	Access to Manufacturer's Manuals & Bulletins					

SYSTEM:	MINIMUM INSPECTION REQUIREMENTS:	*	PASS	FAIL	N/A	YOU
MAIN AIRFRAME:	General Inspection.					
	Fasteners, rigging & general assembly.					
	Damage of any kind.					
	Structural members, welds, cracks, dents, corrosion or deformation.					
	Data Plate(s). Correct information & location.					
	Other:					

SYSTEM:	MINIMUM INSPECTION REQUIREMENTS:	*	PASS	FAIL	N/A	YOU
FRONT FORK SYSTEM:	General Inspection.					
	Delrin pivot bushings. Typically removed & replaced at time of inspection.	*				
	Turning radius & clearance. Inspect stoppers & damper operation.					
	Axle & associated spacer(s) condition.					
	If instruction bungees are used, check for condition.	*				
	Other:					

SYSTEM:	MINIMUM INSPECTION REQUIREMENTS:	*	PASS	FAIL	N/A	YOU
SUSPENSION SYSTEM:	General inspection.					
	Fasteners & assembly.					
	Installation, function & range of motion.					
	Adequate adjustment, pressure, use & symmetry.					
	Other:					

SYSTEM:	MINIMUM INSPECTION REQUIREMENTS:	*	PASS	FAIL	N/A	YOU
A-ARM SYSTEM:	General Inspection.					
	Alignment: Check for symmetry.					
	Alignment: Inspect Heim Joints for slight toe-in.					
	Camber at Wheel: Positive camber under weight & during taxi/operation.					
	Aircraft tracks straight during taxi at all speeds.					
	No deflection in A-Arm Axle Plate / Condition of Doubler Plates if Applicable.					
	Other:					

SYSTEM:	MINIMUM INSPECTION REQUIREMENTS:	*	PASS	FAIL	N/A	YOU
MAST SYSTEM:	General Inspection.					
	Interfacing between Mast & Aft Airframe.					
	Pivoting & Mast Pins interface with Aft & Fwd Airframes.					
	Other:					

SYSTEM:	MINIMUM INSPECTION REQUIREMENTS:	*	PASS	FAIL	N/A	YOU
HANG BRACKET SYSTEM:	General Inspection.					
	Proper Hang Bolt & associated hardware.					
	Proper tension.					
	Hang bolt & hang bracket condition & operation.					

SYSTEM:	MINIMUM INSPECTION REQUIREMENTS:	*	PASS	FAIL	N/A	YOU
FRONT TUBE SYSTEM:	General inspection.					
	Delrin End-Blocks & Bushings					
	Other:					

SYSTEM:	MINIMUM INSPECTION REQUIREMENTS:	*	PASS	FAIL	N/A	YOU
WHEEL & TIRE SYSTEM:	General Inspection.					
	Hubs & Bearings - Proper play & security.					
	Hardware holding Hubs to Wheels. Lockwashers & Loc-Tite recommended.					
	Adequate pressure for use & conditions.					
	Tire sidewall, tread & bead condition & clearance of Landing Gear / Fairings.					
	Tube Air Stem orientation & condition.					
	Other:					

SYSTEM:	MINIMUM INSPECTION REQUIREMENTS:	*	PASS	FAIL	N/A	YOU
BRAKE SYSTEM:	General Inspection.					
	Fluid type & level correct.					
	Immediate pressure at slightest forward movement of brake pedal.					
	Brakes are bled, secure & properly adjusted.					
	Brake pads, operation & condition.					
	Cables adequately adjusted & secured.					
	Caliper cannot move as a result of Lug Nut/Axle Nut over-tension.					
	Other:					

SYSTEM:	MINIMUM INSPECTION REQUIREMENTS:	*	PASS	FAIL	N/A	YOU
PODS & FAIRINGS:	General inspection.					
	Condition adequate to prevent loss in flight.					
	No cracking or "spidering" of cracks in gelcoat that can lead to failure.					
	General security of pod & anything attached to it.					
	Wheel Pants secure & in good condition (if installed).					
	Windshield system inspection. O-rings & fasteners.					
	Other:					

SYSTEM:	MINIMUM INSPECTION REQUIREMENTS:	*	PASS	FAIL	N/A	YOU
ELECTRICAL:	General inspection.					
	Wiring Harness System connected & secure. No abrasions.					
	Avionics System.					
	Battery: Terminals secure & Battery in securely mounted					
	Switches marked for operation with a minimum of "OFF"					
	Switches working properly.					
	Circuit Breakers or Fuses labeled for Value & Function					
	Ground Pole Secure at Firewall.					
	Other Common Grounds Secure.					
	Ground on battery to airframe, and connected					
	Volt/Amps					
	Other:					

SYSTEM:	MINIMUM INSPECTION REQUIREMENTS:	*	PASS	FAIL	N/A	YOU
INSTRUMENTATION:	General inspection.					
	Fuel quantity for tank, has been calibrated					
	Analog instruments marked with green/red line ranges					
	Instruments installed with limitations placard					
	Altimeter System					
	Airspeed Indicator & Pitot System					
	Tachometer					
	EGT Gauge					
	CHT Gauge					
	Coolant Gauge					
	Oil Pressure Gauge					
	Oil Temperature Gauge					
	Volt/Amp Gauge					
	Hobbs Meter (typically at Firewall)					
		Other:				

SYSTEM:	MINIMUM INSPECTION REQUIREMENTS:	*	PASS	FAIL	N/A	YOU
AVIONICS:	General inspection.					
	Antennas are properly installed, and have proper support/doubler plates					
	Coax Cable secured, with slack enough to prevent disconnection					
	Radios/Avionics are mounted securely (if installed)					
	Avionics gear functional check					
	Transponder Cert / Expiration Check	*				
	ADS-B Cert / Expiration Check	*				
	ELT Cert / Expiration Check	*				
	ALL Switches - Orientation & Operation					
	Landing Light System					
	Navigation Light System					
	Strobe Light System					
	Instrument Lighting System					

SYSTEM:	MINIMUM INSPECTION REQUIREMENTS:	*	PASS	FAIL	N/A	YOU
ENGINE & GEAR BOX:	General inspection.					
	Refer to Rotax Manuals & Bulletins.					
	Air Filters: Check, Clean & Replace if necessary.	*				
	Spark Plugs. Last recorded Spark Plug Change: (date/hours: _____)	*				
	Spark Plug Boots & Wires to Ignition(s).					
	Carburetor General Operation Rubber Boots on Cables & Linkage.					
	Carburetor-to-Manifold: Rubber Boots & Clamps.					
	Carburetor "Scat" Hose Condition.	*				
	Engine Frame & Mounting secure. Torqued. No cracks/distortion. Symmetrical.					
	Rubber Isolators.	*				
	Anti-Sag Springs & Carbiners.	*				
	Engine Mount secure & no damage.					
	Alternator, belts, accessories properly installed if applicable.					
	All electrical and ignition wires appear correct at engine.					
	Throttle cables anchored and functional at engine.					
	Clearances in engine compartment					
	Ground run at full throttle, static RPM					
	Is everything safetied in engine compartment					
	Throttle cables - at Carburetor					
	Other:					

SYSTEM:	MINIMUM INSPECTION REQUIREMENTS:	*	PASS	FAIL	N/A	YOU
THROTTLE CABLES:	General Inspection					
	Actuator & Splitter Operation. Spring condition.					
	Properly adjusted for accurate & smooth operation - no binding.					
	Other:					

SYSTEM:	MINIMUM INSPECTION REQUIREMENTS:	*	PASS	FAIL	N/A	YOU
CHOKE/ENRICHMENT CABLES:	General Inspection.					
	Actuator & Splitter Operation.					
	Symmetrical operation & adjustment at carburetor(s).					
	Properly adjusted for accurate & smooth operation - no binding.					
	Other:					

SYSTEM:	MINIMUM INSPECTION REQUIREMENTS:	*	PASS	FAIL	N/A	YOU
FUEL SYSTEM:	General Inspection.					
	Take Fuel Sample & Confirm Curtis Drain Condition & Operation					
	Contaminants drain from lowest point w/ minimal manipulation or leveling.					
	Fuel Lines: Routing results in no wear.					
	Fuel Lines: Routing proper material and diameter for intended fuel supply.					
	Fuel Lines: Protected from chafing, and secure from "catching a foot."					
	Fuel Lines: No cracks in ends of hoses & clamps are secure & in good cond.	*				
	Fuel Lines: Routing avoids areas of heat.					
	Fuel Filter: Last Filter change (date/hours): _____	*				
	Fuel Filter: Installed with proper orientation	*				
	Fuel Tank: Check for abrasion against airframe.					
	Fuel Tank: Check for leaks & general installation/fit.					
	Fuel Tank: Check fittings.					
	Fuel Tank: Check Cap & O-Ring					
	Fuel Tank: Check vent and/or return line(s), no blockages, no loops...	*				
Other:						

SYSTEM:	MINIMUM INSPECTION REQUIREMENTS:	*	PASS	FAIL	N/A	YOU
COOLANT SYSTEM:	General inspection.					
	Plumbing: No cracks nor abrasions in hoses. No leaks.					
	Check clamps.					
	Change Coolant. Date/hours of last change: _____	*				
	Coolant Level in Overflow & Condition of Overflow Container.					
	Check Radiator Drain Plug & Secure if Possible					
	Other:					

SYSTEM:	MINIMUM INSPECTION REQUIREMENTS:	*	PASS	FAIL	N/A	YOU
OIL / LUBRICATION:	General inspection.					
	912: Full Inspection 582: Gearbox & Rotary Valve Systems Only					
	Inspection all Lines: No cracks, no leaks, condition of clamps & no abrasion.					
	Install/Change Oil (See Procedure). Date/hours of last change: _____	*				
	Replace Oil Filter (See Procedure)	*				
	582 Only: Change Gear Box Oil					
	Inspect Magnetic Chip Detector/Magnet (Both 582 and 912/914 Series)					
	Other:					

SYSTEM:	MINIMUM INSPECTION REQUIREMENTS:	*	PASS	FAIL	N/A	YOU
EXHAUST SYSTEM:	General inspection.					
	Muffler and exhaust manifold for cracks.					
	Muffler springs and rubber mounts.					
	Inspect Exhaust Silencer.					
	Other:					

SYSTEM:	MINIMUM INSPECTION REQUIREMENTS:	*	PASS	FAIL	N/A	YOU
PROP:	General Inspection.					
	Refer to Manufacturer's Maintenance Manual & Procedures.					
	Hardware torque, condition & clearances.					
	Pitch, Balance & Tracking if needed.					
	Other:					

SYSTEM:	MINIMUM INSPECTION REQUIREMENTS:	*	PASS	FAIL	N/A	YOU
STATIC RUN-UP: (IF APPLICABLE)	General inspection.					
NOTE: IF THIS IS THE INITIAL START, THEN THIS SECTION IS TO BE USED IN CONJUNCTION WITH THE GROUND TEST CHECKLIST AND/OR ROTAX BREAK-IN SCHEDULE.	Check Prop Install & Clearances before start up.					
	Confirm parking brake operation & chock wheels / secure aircraft.					
	Check immediate Oil Pressure & proper Idle Settings.					
	Check all Switches for proper operation.					
	Static Run-Up: Full Throttle RPM: _____					
	Balance & Tune Carbs @ Idle, Mid-Range, Cruise & Max					
	Double Check Temperatures for Operation					
	Idle Setting: _____					
	Other:					

SYSTEM:	MINIMUM INSPECTION REQUIREMENTS:	*	PASS	FAIL	N/A	YOU
DECALS & PLACARDS:	General inspection.					
	Readable & proper locations.					
	Data Plate: Visible & Fireproof & Correct Data					
	Data Plate: Installed per FAR 45.11(a)					
	N-Numbers - per FAR 45.23(b)					
	"Light Sport" - per FAR 45.23(b)					
	"Experimental" - per FAR 45.23(b)					
	Including, but not limited to the following placards:					
	AOI/POH On-Board					
	Throttle Operation					
	Choke Operation					
	Fuel Supply					
	Oil Grade & Quantity					
	Fuel Grade & Quantity					
	Coolant Type					
	All flight & engine controls marked per use					
	Other:					

SYSTEM:	MINIMUM INSPECTION REQUIREMENTS:	*	PASS	FAIL	N/A	YOU
SEATING SYSTEM:	General inspection.					
	Condition, deterioration, security, proper installation & adjustment.					
	Attachment system. Bushings. Hardware. Clearances. Seat-to-Frame interface.					
	Seat Belts and/or Safety Harness for damage, deterioration and security.					
	Check Latches and Inertia Reel operation (if installed).					
	Other:					

SYSTEM:	MINIMUM INSPECTION REQUIREMENTS:	*	PASS	FAIL	N/A	YOU
INSTRUCTOR SYSTEM:	General Inspection.					
	Steering & Control Systems on Airframe					
	Steering & Control Systems on Wing					
	Safety Equipment					
	Other:					

SYSTEM:	MINIMUM INSPECTION REQUIREMENTS:	*	PASS	FAIL	N/A	YOU
PARACHUTE SYSTEM:	General inspection.					
	Parachute System Make: _____ Model: _____					
	Cannister Serial Number: _____ Exp Date: _____					
	Rocket Serial Number: _____ Exp Date: _____					
	Refer to Manufacturers Maintenance Manual & Procedures.					
	Proper placarding.					
	Check condition & installation of deployment handle(s).					
	Proper installation, condition & routing of webbing.					
	Other:					

SYSTEM:	MINIMUM INSPECTION REQUIREMENTS:	*	PASS	FAIL	N/A	YOU
WING:	General Inspection.					
	Wing Airframe S/N: _____ Sail S/N: _____					
	Airframe assembly.					
	Control Bar movement free to limits of travel.					
	Sail & Thread condition. Remove test patch & send to Factory: _____					
	Sail installation & tension.					
	All hardware & safety pins - especially associated with setup & takedown.					
	All cables.					
	All battens & ribs.					
	Wing moves freely - no binding.					
	Wing limitations decal or placard.					
	Airspeed indicator speed range decals consistent with wing installed					
	Stinger					
	Bag & Padding					
	Other:					
	Other:					

SYSTEM:	MINIMUM INSPECTION REQUIREMENTS:	*	PASS	FAIL	N/A	YOU
ACCESSORIES:	General inspection.					
	GPS & mounting assembly.					
	VHF Radio & mounting assembly.					
	Cameras & mounting assembly.					
	Other:					
	Other:					
	Other:					

SYSTEM:	MINIMUM INSPECTION REQUIREMENTS:	*	PASS	FAIL	N/A	YOU
OTHER:						

ELSA: KIT BUILT: I AM THE ASSEMBLER:	I certify that this aircraft has been inspected in accordance with the above checklist, suitable references such as the Wild Sky Assembly Manual, the Rotax Manuals and the FAA AC 43.13(b). I hereby release this aircraft to Ground & Flight Testing.					
	SIGNED:	DATE:				
	PRINT NAME:	TITLE:				
	Record the above entry in the Aircraft Log Book	DATE:				

SLSA: FACTORY BUILT: I AM THE FACTORY:	I certify that this aircraft has been inspected in accordance with the above checklist, suitable references such as the Wild Sky Assembly Manual, the Rotax Manuals and the FAA AC 43.13(b). I hereby release this aircraft to Ground & Flight Testing.					
	SIGNED:	DATE:				
	PRINT NAME:	TITLE:				
	Record the above entry in the Aircraft Log Book	DATE:				

PRE-CERT INSPECTION: I AM A FACTORY-AUTHORIZED INSPECTOR:	"I certify this Final Condition Inspection was completed as a supplement to the Rotax Installation, Maintenance & Inspection Procedures, scope & detail of Inspection Procedures outlined in FAR 43 Appendix D for aircraft, Northwing Wing-Specific Maintenance & Inspection Procedures, the above checklist, and all applicable manufacturers' technical data; and is found to be in a condition for safe operation."					
	SIGNED:	DATE:				
	PRINT NAME:	TITLE:				
	CERTIFICATION:	EXP:				
	Record the above entry in the Aircraft Log Book	DATE:				
	Complete the					

ANNUAL CONDITION or 100-HR INSPECTION: I AM A CERTIFIED 3rd PARTY INSPECTOR:	I certify that this aircraft has been inspected in accordance with the scope and detail of FAR 43 Appendix D in addition to additional technical data including the Rotax Maintenance Manual, Northwing Maintenance Manual and the Wild Sky Maintenance Manual. Aircraft is deemed airworthy at the time of this inspection and found to be in a safe condition for continued service. A list of discrepancies, if any, has been provided to the owner/operator.					
	SIGNED:	DATE:				
	PRINT NAME:	TITLE:				
	CERTIFICATION:	EXP:				
	LOG BOOK: Record the above entry in the Aircraft Log Book	DATE:				
	ONLINE: Complete an Inspection Completion Form at www.WildSkyAircraft.com under Technical Forms	DATE:				

ADMINISTRATIVE CERTIFICATION USE ONLY BEYOND THIS POINT:

DOCUMENTS:	ITEMS FOR PROCESSING OR REVIEW (IF APPLICABLE):	PASS	FAIL	N/A	YOU
	This checklist filed into Master File				
	Review applicable Pick Sheets & BOM				
	Ground Test checklist complete				
	Condition Inspection Complete by Independent Party if Required				
	Airworthiness Documents Complete				
	AOI/POH with Aircraft serial number and N-Number				
	Maintenance Manual with Aircraft Serial Number and N-Number				
	FAA Form 8130-6 Application for A/W Certificate for Production Flight Test				
	FAA Form 8130-6 Application for A/W Certificate for Operational Flight				
	FAA Form 8130-15 Statement of Compliance				
	Registration Certificate available in aircraft.				
	Logbook has current Annual/Condition Inspection				
	Weight & Loading Study Done / Logbook has aircraft Weight Certification				
	FAR 91.9 Placards				
	Other:				