## Annual or 100-Hour Inspection Guide For Jabiru J170, J230, and J250 Models

A&P or LSA Repairman with Maintenance Rating Required

Owner's Name:
Address:
City/State/Zip:
Registration Number:
Airframe Serial Number:
minumo derial Namber.
Engine Serial Number:
Hours:
Date Inspection Completed:
Servicing Agency:
Address:
City/State/Zip:
Phone Number:
A&P/Repairman Name:

Inspection Intervals: The time periods for the inspections noted in this schedule are based on normal usage under average environmental conditions. Airplanes operated in humid tropics, cold damp climates, etc. may need more frequent inspections for wear, corrosion, lubrication, and or lack of maintenance. Under these adverse conditions, perform periodic inspections in compliance with this guide at more frequent intervals undil the owner or operator can set his or her own inspection periods based on the contingencies of experience.

The 100-hour inspection is required ONLY for aircraft used in commercial operations. Airplanes operated commercially less than 100 hours per year must have a 100-hour inspection performed no later than 12 months following the date of the preceeding 100-hour inspection. The 100--hour interval between performances of the procedures specified herein should NEVER be exceeded by more than 10 hours which can be used only if the additional time is required to reach a place where the inspection can be satisfactorily accomplished. However, any extension of the 100-hour interval must be subtracted from the following 100-hour interval, with no time extension permitted. For example, if an inspection is done at 110 hours, the next In addition to the inspections prescribed by this schedule, the ATC transponder must be tested and inspected at 24-month intervals in compliance with the requirements specified in FAR Part 91.

**Placards:** Ensure that all placards are in place and legible whenever the airplane has been repainted or touched up after repairs. Replace any placards that have been inadvertently defaced or removed.

**Airworthiness Responsibility:** Jabiru USA Sport Aircraft's recommended inspection program in accordance to FAR Parts 43 and 91 consists of, but is not limited to, inspection items listed in this Inspection Guide, any applicable Service Bulletins or Air Safety Alerts issued against the airframe or any equipment installed therein.

The owner or operator is primarily responsible for maintaining the aircraft in an airworthy condition, including compliance with all applicable Service Bulletins and Air Safety Alerts issued by the manufacturer. It is further the responsibility of the owner or operator to ensure that the airplane is inspected in conformity with the requirements of Parts 43 and 91 of the Federal Aviation Regulations. Jabiru USA Sport Aircraft, LLC, has prepared this inspection guide to assist the owner or operator in meeting the foregoing responsibilities. This inspection guide is not intended to be all-inclusive, for no such guide can replace the good judgment of a certified airframe and powerplant mechanic in the performance of his or her duties. As the one pimarily responsible for the airworthiness of the airplane, the owner or operator should select only qualified personnel Jabiru USA Sport Aircraft, LLC issues service and safety information for the benefit of owners and operators. It is the responsibility of the owner/operator to review and comply with each Service Bulletin and Air Safety Alert.

While this guide may be used as an outline, detailed information of the many systems and components in the airplane will be in the various section chapters of its service manual and the pertinent vendor publications. It is also recommended that reference be made to the applicable airframe and engine service manuals, previously issued Service Instructions, Jabiru Service Bulletins, applicable FAA regulations and publications, Vendors Bulletins and specifications for torque values, clearances, settings, tolerances, and other requirements. It is the responsibility of the owner or operator to ensure that the airframe and powerplant mechanic inspecting the airplane has access to the previously noted documents as well as this inspection guide. These documents may be downloaded from the manufactuer's website, www.usjabiru.com.

## 1. Operational Inspection

		Starter – Check for proper operation, unusual noises and dragging.
Pass	Fail	Comments:
	1	I .
		Fuel Pressure or Flow – Check within normal limits (if installed).
		Comments:
Pass	Fail	
		Cylinder Head Temperature – Check for proper operation, temperature and fluctuations.
Pass	Fail	Comments:
	1	
	1	Alternator – Check for proper output and unusual noises.
Pass	Fail	Comments:
		Propeller – Check for smoothness of operation.
		Comments:
Pass	Fail	
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		Oil Pressure and Temperature – Check for proper pressure, temperature limits and unusual fluctuations.
Pass	Fail	Comments:
		Magnetos – Check the performance of the magneto as outlined under the heading NORMAL PROCEDURES in
		the appropriate Pilot's Operating Handbook.
Pass	Fail	Comments:
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		Power Check – Refer to NORMAL PROCEDURES in the appropriate Pilot's Operating Handbook.
Pass	Fail	Comments:
		Voltmeter – Check for proper indication and unusual fluctuations.
Pass	Fail	Comments:
	1	
	T	<b>Heating and Ventilating System</b> – Check for proper operation, heat and airflow output. Check controls for freedom of operation.
Pass	Fail	Comments:
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	1	Front Console Main Fuel Shutoff Valve – Check for proper operation and freedom of movement.  Comments:
Pass	Fail	comments.
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		Induction Airbox, Valve, Doors, and Controls – Remove air filter and inspect hinges, doors, seals, and attaching parts for wear and security. Check operation.
Pass	Fail	Comments:
	1	
		Oil Cooler - Check for obstructions, leaks, and security of attachment.
	Τ	Comments:
Pass	Fail	
		<b>Doors</b> Check latches, hinges, and seals for condition, operation, and security of attachment.
		Comments:
Pass	Fail	
		<b>Idle RPM and Mixture Settings</b> – Check for both proper RPM and mixture settings. Check controls for freedom of operation.
Dace	Fail	Comments:
Pass	Гап	

		<b>Ignition switch</b> Rotate the ignition switch through the OFF position to the extreme limit of switch travel. If the engine stops firing, the switch is normal. If the engine continues to run with the switch held in the past OFF position, it is an indication that the magneto is still "hot" or ungrounded. When the switch is released from the past OFF position, it should automatically return to normal OFF and the engine should stop running. However, any ignition switch exhibiting this abnormal condition should be replaced.
	L	Comments:
Pass	Fail	
	1	All Engine ControlsWith the engine running, check for proper operational limits, engine response and rigging. Check friction locks for proper operation.
Pass	Fail	Comments:
		Fuel Quantity GaugesCheck for proper operation and unusual fluctuation.
Pass	Fail	Comments:
	T	Auxilliary Fuel Pump Check for proper operation, unusual noise and fluctuations.
Pass	Fail	Comments:
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		Fuel Tank Selector ValvesCheck for smooth operation and proper placarding.
		Comments:
Pass	Fail	Comments.
		All LightsCheck function, condition, attachment, cracked or broken lenses. Check switches, knobs and
		circuit breakers for looseness and operation.  Comments:
Pass	Fail	
<u> </u>		
		Stall Warning SystemCheck for proper operation.
		Comments:
Pass	Fail	
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		Radio Operation Check for proper operation, security of switches and knobs.
_		Comments:
Pass	Fail	

		Flapscheck for noisy operation, full travel and proper installation.
Pass	Fail	Comments:
<u> </u>		
	1	]
		Flight InstrumentsCheck for condition and proper operation.
		Comments:
Pass	Fail	
		<b>Brakes</b> Check for condition and wear, ease of operation and proper release of parking brake. Check for unusual brake chatter.
		Comments:
Pass	Fail	
	J	
		<b>Emergency Locator Transmiter</b> Check for proper operation and ensure the ELT is armed when the airplane is returned to service. Check ELT battery expiration date and replace batteries if necessary.
		Comments:
Pass	Fail	
		Switches, Circuit BreakersCheck for proper operation.
Pass	Fail	Comments:
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		Flight and Trim ControlsCheck freedom of movement and proper operation through full travel with and
		without flaps extended. Check trim controls for proper operation.  Comments:
Pass	Fail	ouniments.
2. Po	werpl	ant: Refer to Instruction & Maintenance Manual for Jabiru 3300 Aircraft Engine.
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		Spinner and Spinner Flange: Check for deformation, security and cracks.  Comments:
Pass	Fail	ouniments.
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		Propeller and mounting bolts: Check tension on all propeller bolts. Check propeller for condition and
		security. Inspect blades for cracks, dents, nicks, scratches, erosion, delamination (in the case of fiberglass sheathed propellers), security and movement in hub.
Dess	Foi!	Comments:
Pass	Fail	

		Spinner/Propeller Tracking: Check that propeller blade and spinner tracking is in alignment.
		Comments:
Pass	Fail	
		Propeller Hub Flange: Check for cracks and condition.
Pass	Fail	Comments:
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		<b>Leak Check:</b> Check for oil, fuel and induction leaks, then clean entire engine and compartment before inspection.
		Comments:
Pass	Fail	
		Flywheel Screw Tension: Check 24 ft-lbs.
		Comments:
Pass	Fail	comments:
		Induction Air Filter: Check for condition, cleanliness and security. Replace if necessary.
	F . 11	Comments:
Pass	Fail	
		Induction System: Check the SCAT hose for damage and wear. Check the carburetor heat box for
		blockage, security, cracks, operation and wear.  Comments:
Pass	Fail	
		Coaling Deffice Charlefor make your and as all
		Cooling Baffles: Check for cracks, worn areas and security.
Pass	Fail	Comments:
		<b>Cylinders:</b> Check cylinders and exhaust manifold for obvious leaks, security and cracks. Check cylinders for broken cooling fins and loose or missing base nuts.
		Comments:
Pass	Fail	

		Crankcase: Check for security of crankcase half bolts. Check front seal for leaks.
		Comments:
Pass	Fail	
		Hoses and Ducts: Check all fuel, oil and SCAT hose or duct for leakage, cracks, deterioration and damage. Check fittings for security.
Pass	Fail	Comments:
		Intake and Exhaust: Check for deformation, security, cracks, leaks, loose or missing nuts and clamps.  Check for thin wall condition which may occur due to normal internal erosion on exhaust stacks which have long service time.
		Comments:
Pass	Fail	
		Ignition: Check for proper connection, security and fraying. Check gap between coil and flywheel magnets
		should not exceed .010"
		Comments:
Pass	Fail	
		Distributor Caps & Rotors: Check for wear at the contact points. Replace every 200 hours.
		Comments:
Pass	Fail	
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		Spark Plugs & Ignition Leads: Clean, inspect, regap, test and replace spark plugs as necessary. Tighten
		spark plugs to proper torque. Check ignition harness condition and for proper attachment.
		Comments:
Pass	Fail	
		Compression: Perform differential compression test.
		Comments:
Pass	Fail	
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Pass   Fail   Comments:			Electrical Wiring and Equipment: Inspect electrical wiring and associated equipment and accessories for
Battery: Inspect, clean and tighten connections. Check for security and proper attachment. Check for corrosion. Make certain battery is clean. Water or dirt on battery surfaces can cause battery to discharge.    Pass   Fail			fraying and attachment.
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		Carburetor: Check overall condition. Inspect for leaks. Remove bowl and check for sediment. Check
	Т	condition of floats.
Pass	Fail	Comments:
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		Plumbing: Inspectall hoses, lines and clamps for condition and attachment. Check plumbing clearance and
		secure against possible chafing.
	Ţ <u>.</u>	Comments:
Pass	Fail	-
		Engine Sump: Check for cracks, leaks, proper fluid level, and security.
	Ī	Comments:
Pass	Fail	
		Oil Service: Remove oil filter. Inspect oil sump drain and install new filter. Drain and replace crankcase oil.
	T	Empty oil overflow bottle.  Comments:
Pass	Fail	conments.
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		On a second seco
	,	Oil Cooler: Check oil cooler, lines and fittings for condition, security, chafing and leaks.
D-00	F-11	Comments:
Pass	Fail	-
		Firewall: Check for wrinkles, damage or cracks. Check all electrical and control access holes for proper
		sealing.
		Comments:
Pass	Fail	-
		Engine Accessories: Check for condition, security and leaks. Check wiring, hoses and tubes for chafing,
	T	security and leaks.  Comments:
Pass	Fail	
	_	
		Only Hand Contains Cheek for greeks distortion correction looks and obstructions
	,	Cabin Heat System: Check for cracks, distortion, corrosion, leaks and obstructions.
D-00	F-11	Comments:
Pass	Fail	-

		All Drains and Plugs: Check for condition, cleanliness and security. Check for leaks and correct tension.
Pass	Fail	
<u> </u>		
		Cowling skin: Check for deformation, delamination and obvious damage or cracks. Check for rub points on
		the interior surfaces.
Pass	Fail	Comments:
<u> </u>		
		<u> </u>
		Cowling structure: Check for cracks and delamination. Check hinge pin structure for loose rivets or
		deformation.
Pass	Fail	Comments:
<u> </u>		
		Head Bolt Tension: Torque head bolts to proper tension.
Pass	Fail	Comments:
3. Ca	bin ar	nd Baggage Compartment
3. Ca	bin ar	nd Baggage Compartment  Skin: Inspect skins for deformation or cracks. If damage is found, check adjacent structure.
Pass	Fail	Skin: Inspect skins for deformation or cracks. If damage is found, check adjacent structure.
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Pass	Fail Fail	Skin: Inspect skins for deformation or cracks. If damage is found, check adjacent structure.  Comments:  Structure: Check for cracks and deformation. Check for concealed damage.
Pass	Fail	Skin: Inspect skins for deformation or cracks. If damage is found, check adjacent structure.  Comments:  Structure: Check for cracks and deformation. Check for concealed damage.
Pass	Fail Fail	Skin: Inspect skins for deformation or cracks. If damage is found, check adjacent structure.  Comments:  Structure: Check for cracks and deformation. Check for concealed damage.
Pass	Fail Fail	Skin: Inspect skins for deformation or cracks. If damage is found, check adjacent structure.  Comments:  Structure: Check for cracks and deformation. Check for concealed damage.
Pass  Pass	Fail Garage	Skin: Inspect skins for deformation or cracks. If damage is found, check adjacent structure.  Comments:  Structure: Check for cracks and deformation. Check for concealed damage.  Comments:  Teleflex cables: Check the flight control components. Replace control system components that have bulges, splits, bends or cracks. Check control cables and associated equipment for condition, attachment, alignment,
Pass	Fail Fail	Skin: Inspect skins for deformation or cracks. If damage is found, check adjacent structure.  Comments:  Structure: Check for cracks and deformation. Check for concealed damage.  Comments:  Teleflex cables: Check the flight control components. Replace control system components that have bulges, splits, bends or cracks. Check control cables and associated equipment for condition, attachment, alignment, clearance and proper operation.

		Aileron Quadrant: Inspect for condition, attachment and proper operation. Check for binding.
Dana	Fail	Comments:
Pass	Fail	
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		Flap Motor and Shafts: Check for condition, security and wear at all points.
Pass	Fail	Comments:
	1	Brake Master Cylinder: Check for condition, security and leaks. Check lines for signs of chafing or cracks.
Pass	Fail	Comments:
		<b>Rudder Pedals:</b> Check for freedom of movement. Check push/pull cables for proper routing, condition and security. Check rudder pedal springs for condition and correct placement. Check pedal extensions for security if installed.
Pass	Fail	Comments:
		Control Column: Check for freedom of movement. Inspect rod ends for condition, security and operation.
Pass	Fail	Comments:
	I	
	1	Trim Control: Check for freedom of movement. Inspect rod ends for condition, security and operation.  Comments:
Pass	Fail	Comments:
	+	
		Engine Controls: Check for ease of operation through full travel.
		Comments:
Pass	Fail	
		Plumbing: Check all plumbing and connections for security, leakage and general condition.
_		Comments:
Pass	Fail	

		Windows and Doors: Inspect windows for scratches, crazing and general condition. Inspect doors for security and attachment. Check latching mechanism for proper engagement and ease of operation.
	F	Comments:
Pass	Fail	
		Seats, Seat Belts and Shoulder Harnesses: Inspect cabin seats, seat belts, and shoulder harnesses for proper operations, condition, and security of attachment.
_		Comments:
Pass	Fail	
		Ventilation System: Check all fresh air vents for obstructions, proper movement and operation.
Pass	Fail	Comments:
<u> </u>		
		Fuel System: Inspect for leakage, security, freedom of movement, and condition. Inspect fuel filter and replace if necessary. Check security of all fuel line hose clamps. Check for proper placarding.
_		Comments:
Pass	Fail	
		Headset Jacks: Inspect for cleanliness, security, and evidence of damage.
Pass	Fail	Comments:
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	_	
4. Wings and Carry-Through Structure		
		<b>Skin:</b> Check for deformation and obvious damage. Check for cracks. If damage is found, check adjacent structure. Check for indications of excessive flight loading.
Pass	Fail	Comments:
	_	
	T	Access Panels: Inspect for cracks, proper fit and attachment.
Pass	Fail	Comments:
	_	

	<b>Control Cables</b> : Check aileron controls for smoothness and ease of operation. Check aileron cable clamps for security and proper placement. Check control cable ends for security, alignment, corrosion, and binding.
:I	Comments:
	<b>Ailerons:</b> Check control surfaces for proper clearance and freedom of movement. Check hinges and hinge pins for security. Check aileron skin and visible structure for cracks.
Fail	Comments:
	· · · · · · · · · · · · · · · · · ·
	<b>Fuel Tanks, Caps and Vents:</b> Inspect bottom of wing for evidence of fuel tank leakage. Inspect vents for blockages. Check filler caps for ease of operation.
	Comments:
	Plumbing: Check for leakage, chafing, condition and security.
	Comments:
ш	
	Electrical Wiring and Equipment: Inspect for chafing, damage, security and attachment.
	Comments:
Fail	
Ц	
	Flaps and Actuators: Check for condition, security, binding or chafing of actuator rods. Check flap skin and
	visible structure for cracks.  Comments:
Fail	
	Flap Position Indicator: Check for security and operation.
	Comments:
Fail	
Fail	
	Wing Rolts: Check wing holts for security, DO NOT overtighten
	Wing Bolts: Check wing bolts for security. DO NOT overtighten.
	Wing Bolts: Check wing bolts for security. DO NOT overtighten.  Comments:
	Gail Gail

Pass Fail  Wheel and Tire: Check wheel for cracks and tire for wear, damage, condition and proper inflation. Check sealed bearings for condition and wear.
Drain Ports: Check drain holes in wing and surfaces to assure they are free of obstructions.  Pass Fail  Drain Ports: Check drain holes in wing and surfaces to assure they are free of obstructions.  Pass Fail  Wheel and Tire: Check wheel for cracks and tire for wear, damage, condition and proper inflation. Check sealed bearings for condition and wear.
Drain Ports: Check drain holes in wing and surfaces to assure they are free of obstructions.  Pass Fail  Drain Ports: Check drain holes in wing and surfaces to assure they are free of obstructions.  Pass Fail  Wheel and Tire: Check wheel for cracks and tire for wear, damage, condition and proper inflation. Check sealed bearings for condition and wear.
Pass Fail  Wheel and Tire: Check wheel for cracks and tire for wear, damage, condition and proper inflation. Check sealed bearings for condition and wear.  Pass Fail
Pass Fail  Wheel and Tire: Check wheel for cracks and tire for wear, damage, condition and proper inflation. Check sealed bearings for condition and wear.  Pass Fail
5. Nose Gear  Wheel and Tire: Check wheel for cracks and tire for wear, damage, condition and proper inflation. Check sealed bearings for condition and wear.  Pass Fail
5. Nose Gear  Wheel and Tire: Check wheel for cracks and tire for wear, damage, condition and proper inflation. Check sealed bearings for condition and wear.  Pass Fail
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Wheel and Tire: Check wheel for cracks and tire for wear, damage, condition and proper inflation. Check sealed bearings for condition and wear.  Pass Fail
sealed bearings for condition and wear.  Pass Fail
sealed bearings for condition and wear.  Pass Fail
-   -
<b>Landing gear strut:</b> Inspect rubber shock strut and components for cracks, wear and attachment. Inspect wheel yoke and strut for straightness and security.
Comments:
Pass Fail
Actuating Linkages: Check for wear at attach points. Check for cracks and security.
Pass Fail Comments:
Nose Gear Steering Linkage: Inspect linkages for tightness, condition and security.
Comments:
Pass Fail
Nose Gear Operation: Check for condition, smooth operation, and security.
Comments:

## 6. Main Gear and Brakes

		<b>Brakes, Lines, Lining and Discs:</b> Check for condition, wear and security. Check lines for chafing and signs of leakage and cracks. Check brake discs for cracks.		
D	F-:1	Comments:		
Pass	Fail			
J				
		Wheels and Tires: Check wheels for cracks and tires for wear, damage, condition and proper inflation.		
		Check and repack wheel bearings.  Comments:		
Pass	Fail			
	•			
		Landing Gear Legs: Inspect legs for cracks, overextension or signs of delamination.		
Dago	Fo:I	Comments:		
Pass	Fail			
J				
7. Rear Fuselage and Empennage				
		Skin: Check for deformation, cracks and obvious damage. If damage is found, check adjacent structure.		
_		Comments:		
Pass	Fail			
		Internal Fuselage Structure: Check for cracks and deformation. Check bulkheads, door posts, and center tunnel for cracks or delamination.		
_		Comments:		
Pass	Fail			
		<b>Control Cables:</b> Check elevator and rudder push-pull cables for condition, attachment, alignment, clearance and proper operation. Check cable clamps on both ends for proper attachment and placement. Check rod ends for security and freedom of motion.		
Dana	Fail	Comments:		
Pass	Fail			
J	_			
		Control Surfaces: Check for deformation, cracks, security of hinges, freedom of movement and travel limits.		
Pass	Fail	Comments:		
•	_			

		Fixed Trim Tabs: Check for security and obvious damage.	
D	F-''	Comments:	
Pass	Fail		
		Static Port: Check for blockages. Check static probe for condition.	
Pass	Fail	Comments:	
	I		
	ı	Antennas: Check for condition and security.	
Pass	Fail	Comments:	
8. General			
		Airplane cleaned and serviced.	
Dace	Fail	Comments:	
Pass			
		Inspect all placards to assure they are easily readable and securely attached.	
		Comments:	
Pass	Fail		
	_		
		Ensure that all Service Bulletins, Air Safety Alerts, and previously issued Service Instructions are reviewed and complied with as required.	
Pass	Fail	Comments:	
	1		
		For a complete annual or 100-hour inspection of the airplane, all items on the airplane that are noted in this	
	ı	guide must be inspected.	
Pass	Fail	Comments:	