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## Inspection Schedule for A-22LS aeroplane

Inspection/Service action ↓ and its interval in hours →	25	50	100	200	500	1000	2000
<b>Airframe</b>							
Inspect fuselage for damage (fatigue cracks, loose rivets, etc.)			X				
Inspect fuselage glazing for damage (silvering, cracks, etc.)			X				
Inspect wings for damage (fatigue cracks, loose rivets, torn fabric covering, etc.)			X				
Inspect wing attachment points for play			X				
Remove the wings and inspect its spherical bearings for play and hinge brackets for cracks							X
Inspect the wing struts for fatigue cracks, deformation and loose rivets			X				
Inspect the sealing fabric tape of the wing strut fairings				X			
Check the wing attachment bolts' torque and locking			X				
Inspect the stabilizer for fatigue cracks, deformation, loose rivets and play in joints			X				
Check the stabilizer attachment bolts/nuts torque and locking			X				
Inspect the tail wheel for damage and play			X				
Check the tail wheel attachment bolt/nut torque and locking			X				
Inspect engine cowlings for damage (cracks, ruptures, damaged paint, etc.)			X				
<b>Landing gear</b>							
Inspect the nose leg for fatigue cracks, deformation and play			X				
Check the nose leg bellcrank bolt/nut torque and locking			X				
Check the shock absorber condition and pressure			X				
Inspect the MLG springs and attachment beam for fatigue cracks <sup>1</sup> , deformation and play			X				
Check the MLG spring attachment bolts/nuts torque and locking			X				
Remove the wheel fairings and inspect the wheel tires for cracks, cuts and wear.				X			
Inspect the wheel fairings for cracks, ruptures and damaged paint	X						
Check the torque and locking of the fairing attachment bolts/nuts	X						
Inspect the mud-screens for fatigue cracks and deformation <sup>2</sup>		X					
Check the torque and locking of the mud-screen attachment bolts/nuts <sup>2</sup>		X					
Inspect the skis for damage <sup>3</sup>			X				
Check the torque and locking of the ski attachment bolts/nuts <sup>3</sup>			X				
<b>Brake system</b>							
Inspect expansion tank for leaks, cracks, secure attachment. Check fluid level.			X				
Inspect the master cylinder for leaks of braking fluid				X			

<sup>1</sup> After 5000 landings the MLG springs must be removed and inspected carefully for fatigue cracks

<sup>2</sup> For an aircraft version on wheels with mud-screens

<sup>3</sup> For an aircraft version on skis

<b>Inspection/Servicing action ↓ and its interval in hours →</b>	<b>25</b>	<b>50</b>	<b>100</b>	<b>200</b>	<b>500</b>	<b>1000</b>	<b>2000</b>
Inspect the parking brake valve for leaks of the braking fluid				X			
Inspect the brake unit for the leaks of the braking fluid				X			
Measure the brake disks' wear				X			
Inspect the brake system tubing and joints for leaks and damage				X			
<b>Engine and its control system</b>							
Inspect the engine mount for fatigue cracks and deformation				X			
Check the torque of the engine mount attachment bolts				X			
Inspect the shock absorbers for damage (deep cracks, etc.)					X		
Inspect the engine attachment fitting for the fatigue cracks							X
Check the intake airbox function, condition and attachment <sup>4</sup>				X			
Inspect the throttle and choke cables and cable sheath for wear, damage, kinks			X				
Check the torque of the throttle lever bolt (axle)			X				
<b>Cooling system</b>							
Check the radiator clamps integrity and torque			X				
Inspect the overflow tank for leaks of coolant, cracks; check coolant level			X				
Inspect lines for leaks, damage (chaffing, cracks), untight joints			X				
<b>Lubrication system</b>							
Inspect the oil tank plug for oil leaks; verify vent line is intact and secured			X				
Inspect lines for leaks and damage (chaffing, cracks), untight joints			X				
<b>Fuel system</b>							
Remove fuel tanks and inspect them for fuel leaks and damage					X		
Inspect the shut-off and drain fuel valves for leaks of fuel			X				
Check condition and replace fuel filter (if necessary)				X			
Inspect fuel lines for leaks, damage (chaffing, cracks), untight joints			X				
Check condition and replace fuel lines (if necessary)						X	
<b>Exhaust system</b>							
Inspect exhaust pipes and muffler for cracks			X				
Verify attachment springs are intact			X				
<b>Propeller</b>							
Inspect propeller hub for fatigue cracks; check pitch angles				X			
Inspect propeller blades for damage	X						
Check torque and locking of the propeller bolts/nuts				X			
Check torque of the spinner bolts				X			
<b>Airplane control system</b>							
Inspect control surfaces for fatigue cracks, deformation, loose rivets, torn fabric			X				
Check the play in the hinges of control surfaces/linkages			X				
Check tightness/locking of the nuts of control surfaces/linkages			X				
Check tightness/locking of the nuts and play in hinges of control rods/shafts			X				
Extend flaps and inspect flap extension (play in hinges, nuts tightness/locking)			X				
Grease the slide bearings of all control surfaces/linkages (where necessary)			X				
Inspect rudder control cables for wear, check cable tension				X			
Inspect rudder pedals for fatigue cracks and deformation			X				

<sup>4</sup> For an aircraft version equipped with intake airbox

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Check condition of the control cable pulleys and fairleads					X		
Check trim tab attachment bolts/nuts for corrosion, replace if necessary				X			
Inspect the trim tab control cables and sheath for damage (wear, kinks, etc.)				X			
<b>Electrical system</b>							
Verify battery charges/discharges properly, otherwise replace			X				
Clean starter terminals and starter relay connector of corrosion, if any			X				
Verify starter relay and cables are connected and attached reliably			X				
Verify power cables have good contact with battery, starter and ground			X				
Clean rectifier-regulator and condenser terminals/connectors of corrosion, if any			X				
Check condition of electric switches and warning lights			X				
Clean fuse block terminals of corrosion, if any. Check fuses			X				
Verify correct function of the fuel level sensors/indicators (check readings)				X			
Check landing light function and attaching nut torque			X				
Clean engine sensors' terminals and connectors of corrosion, if any			X				
Inspect electrical harness for damage (chaffing, broken wires, bad insulation)			X				
<b>Pilot seats and harness belts</b>							
Inspect the seats framework for the fatigue cracks and loose rivets			X				
Inspect the seat cushions upholstery for damage			X				
Verify harness belts' locks function properly			X				
<b>Cockpit doors</b>							
Inspect door glass, framework and sealing for damage			X				
Verify the gas struts function properly			X				
<b>Recovery system</b>							
Check attachment of the suspension cables to fuselage and parachute lanyard					X		