



Date _____ N-Number _____ Hours _____

AEROPRAKT A22\A32 ANNUAL INSPECTION CHECKLIST

Check and comply with Service Bulletins

ENGINE GROUP

- _____ Change engine oil (Rotax Aero-Shell Sport 4).
- _____ Install new oil filter (3/4 turn when installing).
- _____ Remove spinner and check propeller hub for cracks. Check propeller blade pitch.
- _____ Check prop bolt torque 180 in-lb. (Kiev Prop). Other prop refer to installation instructions.
- _____ Check prop blades for nicks, splits or other damage. Check spinner for cracks.
- _____ Clean and re-gap or replace spark plugs.
- _____ NGK DCPR8E, Stock #4339 **gapped to (.023”-.027”)**, heat sync compound on threads, torqued to 177 in-lbs.
- _____ Check compression (Engine warm, Throttle open on direct compression.). See Rotax Manual for each method, leak-down or direct compression.
#1= _____ / _____ 87 #2= _____ / _____ 87 #3= _____ / _____ 87 #4= _____ / _____ 87
- _____ Check ignition leads for security and condition.
- _____ Check exhaust system for cracks, leaks and security. Check springs and safety wire.
- _____ Inspect, clean or replace air cleaners.
- _____ Check throttle linkage for condition and operation. Lubricate throttle cables.
- _____ Check throttle friction adjustment.
- _____ Check float bowls for debris and sinking floats.
- _____ Check choke cables for condition and operation. Lubricate choke cables.
- _____ Check oil tank and hoses for condition and security.
- _____ Check engine shock mount assemblies and inspect rubber bushings. Replace if deteriorated.
*Pay special attention to rear mounts on A32. SB imminent.
- _____ Check lord engine mount weldment for cracks and distortion.
- _____ Check EGT and water temp and other probes and wiring for security and condition.
- _____ Check all coolant lines and hoses. Replace hoses if deteriorated. Tighten all hose clamps gently.
- _____ Pay particular attention to the lower rear water pump hose clamp, it is hard to get to and many miss this one. - SB
- _____ Check radiator for security and condition.
- _____ Check coolant overflow reservoir for condition and coolant level.
- _____ Check oil cooler and hoses for security and condition.
- _____ Check cowling for cracks or damage.
- _____ Inspect starter and relay posts and voltage regulator for corrosion.
- _____ Inspect air intake box for cracks, damage, mounting

FUSELAGE GROUP

- _____ Check rudder pedals, cables pulleys and fairleads. Special attention per service alert SB A-22LS-16.
- _____ Check brake master cylinder for security and condition.
- _____ Check aileron control system for condition and operation.
- _____ Check flaperon control system for condition and operation. Extend flaps, check for play.

- _____ Check elevator control system for condition and operation.
- _____ Lubricate all rod ends, swivel fittings, bearings and hinge bolts.
- _____ Check seat for secure attachment.
- _____ Check door hinges and latches for condition and operation.
- _____ Check windows and windshield for cracks and security. - SB
- _____ Check fuel filler cap condition. Check "O" ring seal condition. Lubricate seal w/grease.
- _____ Check fuel shut off fuel valve(s) for proper operation.
- _____ Check fuel lines for condition and security.
- _____ Check or clean/replace fuel filter behind passenger seat as needed. (A32 needs luggage bin tunnel cover removed and the cover over the main gear leg cross member removed, behind the seats in the luggage bin.)
- _____ Check engine and flight instruments for operation and markings.
- _____ Check Nav/Strobe, and Landing lights for proper operation.
- _____ Check instrument panel wiring for condition and security.
- _____ Check battery posts for corrosion and check for secure battery mounting.
- _____ Check battery area for evidence of corrosion or acid overflow spillage.
- _____ Check battery wiring for condition and security.
- _____ Check radio installation and antennas for condition and security.
- _____ Check condition of fabric covering and finish.
- _____ Check fuselage skin for damage, cracks, loose or missing rivets.
- _____ Check condition of switches, fuse block, and warning lights.
- _____ Inspect electrical harnesses for damage and chaffing.
- _____ Check pitot and static system plumbing for security and wear.
- _____ Check seat frames, upholstery, and safety belts and latches for proper operation, wear and damage.

UNDERCARRIAGE GROUP

- _____ Take weight off of gear legs and check for play at attach fittings.
- _____ Check gear legs for distortion cracks and damage.
- _____ Check brake system for fluid leaks and fluid level in reservoir.
- _____ Check brake pads for wear and discs for scoring.
- _____ Check tires for wear and inflation (Mains 25 psi, Tundra Tires 20 psi).
- _____ Check wheel bearings for end play and smooth rotation.
- _____ Check nose fork and hinge for cracks and damage. Lube hinge. – SB
- _____ Check nose gear leg for cracks, distortion or damage.
- _____ Check nose shock absorber for condition and pressure.
- _____ Take weight off nose wheel and check swivel operation. Remove top nut part way leaving one thread turn engaged, lower strut then clean and grease pivot points with high quality grease. Do not take TOP nut off completely or NGL will fall out.
- _____ Remove nose wheel fork pivot bolt, clean, grease and replace.
- _____ Check all wheel bearings for smooth motion, replace as necessary.
- _____ Check steering rods for condition and security.
- _____ Inspect wheel fairings for cracks and damage.
- _____ Inspect mud guards for damage and loose hardware.

EMPENNAGE GROUP

- _____ Check elevator hinge pins for excessive play, lubricate.
- _____ Check elevator trim attach bolts for corrosion. Inspect cable and sheath.
- _____ Check rudder hinge pins for excessive play, lubricate.
- _____ Check strut hardware for condition and security.
- _____ Check fabric covering of tail surfaces.
- _____ Check stabilizer mounting for movement and hardware.

- _____ Inspect stabilizer for fatigue cracks, loose rivets, play in joints.
- _____ Inspect tailwheel and mounting hardware.

WING GROUP

- _____ Check top surface of wing for wrinkles and irregularities that would indicate rib or spar damage.
- _____ Check wing tips for security and condition.
- _____ Check rear spar to fuselage bolts and fittings for wear and security.
- _____ Check lift strut to fuselage bolts for wear and security.
- _____ Check lift struts for distortion cracks and damage.
- _____ Check strut to spar bolts.
- _____ Check left and right aileron hinges and condition of hinge pins, lubricate.
- _____ Check flaperons hinge brackets for cracks and damage.
- _____ Check flaperons horns for condition and security.
- _____ Check wing skins for loose rivets, dents, damage.

MISCELLANEOUS

- _____ Check or replace ELT batteries. Mark Date on ELT for next battery replacement. AmerKing ELT's have a battery in the ELT remote, Artex does not.
- _____ MGL Glass Panels replace Back Up Battery CR2032.
- _____ Check for proper display of airworthiness certificate and registration.
- _____ Check proper display of "Experimental" or "Light Sport" markings and passenger warning placards.
- _____ Check transponder certification.
- _____ Check parachute system, controls and harnesses.
- _____ Reset maintenance timer for 100 hour, annual, and oil change in avionics panel.

500 HOUR INSPECTION

- _____ Remove fuel tanks and inspect for leaks and damage, inspect interior of wings.
- _____ Check condition of control cable pulleys and fairleads.
- _____ Remove elevator control rod and inspect for wear and damage.
- _____ Check control surface deflection angles.
- _____ Check condition of fuel lines and replace as necessary.

2000 HOUR INSPECTION

- _____ Remove wings and inspect it's spherical attach bearings for axial and radial play and wing strut attachment brackets for fatigue cracks.
- _____ Check engine attachment fitting for fatigue cracks.

For more information, refer to Aeroprakt A22LS or A32 Vixxen Maintenance Manual and Aeroprakt Ltd for service bulletins. <http://aeroprakt.kiev.ua/bulletins/> Check here for Rotax Service Bulletins. Rotax installation, service and maintenance manuals available online at: <http://www.flyrotax.com/services/technical-documentation.html>