

## The Microlight Section of The Aero Club Of South Africa

### INSPECTION CHECK LIST

DESCRIPTION	TICK OFF	SIGN AP	SIGN AC OWNER
Aircraft Type: .....Reg No.: .....			
Engine type: .....Serial No:.....			
Propeller Type : .....			
Engine Hours : .....			
Airframe Hours : .....			
Engine Hours Since: ..... New : ..... Overhaul : .....			
Last 50/100hrs inspection and Service: .....			
Date(s) of Accident(s) ; If Any, And Repaired By Whom,(give short description of repairs made) : ..... ..... ..... .....			
<p><u>Declaration</u> : I ..... ID No : ..... Am the owner of above mentioned aircraft, and I am fully conversant with the above procedures, and have given the full details as requested by the Inspector for the completion of such inspection. Signed:..... Date : .....</p>			
<p>I ..... M.I.S.A.S.A. AP No. .... Have checked the above aircraft, and have found the aircraft to be (airworthy, not airworthy) as per the regulations. The owner of such aircraft is a member of Aero club and M.I.S.A.S.A. and has proof of such (membership no: ..... ) and the owner has valid 3rd Party. Details : (.....) Date : ..... M.I.S.A.S.A.A.P. Stamp</p>			

1	<b>WING</b>			
	Check wing from distance and look at geometry			
	Check trapeze and "A" Frame as a whole			
	Check Down Tubes are double sleeved (Rivets).			
	Check all bolts and nuts for rust.			
	Check "D" shackle for cracks.			
	Check "D" shackle bolts for grade and type.			
	Check flying wire attachments on trapeze.			
	Check swages.			
	Check corner fittings.			
	Check flying wires side.			
	Check flying wires front.			
	Check flying wires rear.			
	Check stitching on keel pocket.			
	Check prop clearance on keel.			
	Check king post hole on sail.			
	Check trailing edge of sail for reinforcement by luff line attachment.			
	Check nose of wing.			
	Check "D" shackle.			
	Check nose plates.			
	Check centre batten.			
	Check self tapping screws.			
	Check "U" Channel.			
	Check nose catch system.			
	Check hang point assembly.			
	Check hang point position.			
	Check hang block.			
	Check safety cable.			
	Check king post guards.			
	Check centre of spreader bar.			
	Check spreader bar centre plates.			
	Check spreader bar cable for fatigue.			
	Check wing bolts correct way round.			
	Check spreader bar and plates (doubled).			
	Check wing tips.			
	Check nylon strap (stitching) .			
	Check for leading edge damage.			
	Check bolt on wing tip.			
	Check inside wing to see threads.			

	Check batten pockets.			
	Check washout tube (angle) and length.			
	Check Bungees.			
	Check luff lines.			
	Check luff line attachment on sail for re-inforcement.			
	Check hook on hook cable.			
	Check tension rope (security) .			
	Check spreader bar cable attachment.			
	Check keel pocket.			
	Check for wear on top of keel where spreader bar moves across.			
	Check to make sure that the strap is present on wings with keel hidden.			
	Check for damage on centre batten.			
	Use sail tester,			
	Check sail on top.			
	check sail on leading edges.			
	Check sail on tips.			
	<b>2 UNDERCART</b>			
A	Check front end.			
	Check axle bolt.			
	Check tyre pressure +/- 800 or .8 + valves on tubes.			
	Check front forks (welds?) and excessive play.			
	Check brakes / cables ?			
	Check goose neck and bow sprit welds.			
	Check throttle cable (corrosion at point of fixture) .			
	Check front mud guard (security and condition) .			
	Check rim (around bolts) .			
	Check brake drum.			
	Check seat bracket.			
	Check welding.			
	Check choke and friction throttle lever.			
	Check lower boom.			
	Check rear steering.			
B	Check tank bracket.			
	On windlass, seat bracket must have gussets.			
	Check seat frame on windlass.			
	Check rear axle.			
	Check bolt securing wheel.			
	Check tyre pressure.			

	Check rear mudguard.			
	Check rim (around bolt holes).			
	Check bearings.			
	On windlass check rear bungee suspension.			
	Check plates connecting rear shock to rear axle.			
	Check shocks are not jammed.			
	Check engin bracket (cracks).			
	Check top seat frame.			
	Check welding for cracks on engine mount.			
	Check engine mount rubbers (and bolts) .			
	Check pylon (welds and brackets) .			
	Check pylon fixing bolt.			
	Check fuel tank.			
	Check fuel lines (must not be hard) .			
	Check fuel filter. Correct type not paper element on premix.			
	Check fuel tank fittings.			
	Check inside of tank for dirt.			
	Check for tank chaffing on undercart.			
	On windlass, make sure tank has new outlet pipe.			
	Check breather screws on old boat tanks.			
	Check breather holes on tanks.			
	Check drain plugs and valves.			
	Check pylon.			
	Check hang plates.			
	Check hang block (condition, i.e. cracks) .			
	Check hang bolt (and pins and nuts).			
	Check seat belts (security and chaffing).			
	<b>3 ENGINE</b>			
	Check spark plugs BR8ES and plug gap.			
	Check gear oil used and when last changed.			
	Check fan belt.			
	Check carb rubbers.			
	Check air filters and safety system.			
	Check needles and needle jets if older than 100 hours.			
	Check main jets for correct altitude. Sea Level                      Altitude                      582 165                      158                      503                      158 150			
	Check fuel pump.			
	Check for oil leaks - motor and gear box.			

	Check retaining system for plug caps on inverted motor.			
	Check wiring for chaffing.			
	Check dust covers.			
	Check exhaust springs, knuckle joints.			
	Check gear box safety wires.			
	Check when last decoked. Not mandatory.			
	On 582 check water system.			
	On 582 check auto lube system			
	Check carb bowls.			
	Check engine plates.			
	Gear box oil changed every 100 hours or every year.			
<b>4</b>	<b>PROP</b>			
	On warp prop, check for crackson old type hub.			
	On IVO check for spaces to prevent over tightening.			
	Check prop bolts (and nuts).			
<b>5</b>	<b>INSTRUMENTS AND INSTRUMENT PANELS/PODS</b>			
	Check for cracks especially around base of pod.			
	Check radio and GPS brackets for security.			
	Check antenna is secured and safety tip on.			
<b>6</b>	<b>BATTERY AND BATTERY BOX</b>			
	Check terminals are tight and clean.			
	Check battery box is secure.			
	Check battery is secured tight.			
	Check battery water levels.			
<b>7</b>	<b>Check Exhaust rubbers and Radiator rubbers.</b>			