

SportStar AIRCRAFT MAINTENANCE AND INSPECTION PROCEDURES



Periodical Inspections Checklists 4.4.3

Model:	S/N.:	Hours flown:	Date of inspection:
SportStar MAX	Registration:	No. of Takeoffs:	

Event	Event description		Inspe ☑ Tick off perfo				
Event #		after the first 25 hrs.	after the first 50 hrs.	every 50 hrs.	every 100 hrs.	Carried out by:	Inspected by:
1.	Prior to the inspection clean and wash the airplane surfaces, if needed.	×	×	×	×		
2.	ENGINE	see engine n	nanufacturer's i	nstructions			
3.	ENGINE COMPARTMENT	•					
3.1.	Fiberglass engine cowlings						
3.1.1.	Check condition of cowlings and quick closing locks - repair any damage				X		
3.1.2.	Remove engine cowling	X	×		×		
3.1.3.	Visually check inside fireproof primer paint - Repaint if needed - White color T 50, Norm V1000 N 56582, thermal protection		×		×		
3.2.	Engine mount						
3.2.1.	Visually check condition, attachment, security of attachment bolts: engine-engine mounting, engine mounting-firewall	×	×		×		
3.2.2.	Visually check condition of rubber silentblocks - replace those cracked and excessively deformed				x		
3.3.	Suction system						
3.3.1.	Visually check condition, attachment and security of air filter at carburetor inlet - clean filter acc. to the engine manual	×	X		×		
3.3.2.	Visually check condition of suction tubing	X	×		×		
3.3.3.	Check carburetor - condition, control cables attachment, lubricate cables at inlet to the bowdens, thermal protection	×	×		×		
3.4.	Battery						
3.4.1.	Visually check attachment and security		×		×		
3.4.2.	Check charging - charge if needed				×		
3.4.3.	Visually check condition and attachment of wire leads - replace those damaged	×	X		×		
3.4.4.	Load test				×		
3.5.	Wiring						
3.5.1.	Visually check condition and integrity of wires, connections, security of wires and grounding	×	X		×		
3.6.	Fuel system						
3.6.1.	Visually check condition, integrity, attachment and security of hoses - replace those damaged	×	X		X		
3.6.2.	Visually check fuel filter condition - replace stopped up filter	X	×		X		
3.6.3.	Visually check system for leaks	X		×	X		

Document No.: Date of Issue: Revision:



AIRCRAFT MAINTENANCE AND INSPECTION PROCEDURES SportStar**



Event	Event description	Inspection ☑ Tick off performed inspection				Carried	Inspected
#		after the first 25 hrs.	after the first 50 hrs.	every 50 hrs.	every 100 hrs.	out by:	by:
3.7.	Cooling system	Teller SWAY		1110.	1119.	<u>.</u>	
3.7.1.	Visually check radiator for condition and leaks				×		
3.7.2.	Visually check condition, attachment of hoses; radiator left hose clearance from exhaust pipe approx. 0.8 in (20 mm), check system for leaks	×	×	X	×		
3.7.3.	Tighten hose clips if needed		×		X		
3.7.4.	Check coolant quantity in the expansion tank - add or change coolant acc. to the engine manual if needed	X	×	×	X		
3.7.5.	Visually check condition and attachment of overflow bottle on the firewall				X		
3.8.	Lubrication system						·
3.8.1.	Visually check condition and attachment of oil tank				X		
3.8.2.	Check oil cooler for condition, attachment and leaks	X	X	X	X		
3.8.3.	Visually check hoses for condition, leaks, attachment and security - replace damaged hoses	X	×		×		
3.8.4.	Check oil quantity - add or change oil acc. to the engine manual if needed	×	×	×	X		
3.9.	Exhaust system						2
3.9.1.	Visually check exhaust system for condition, cracks, deformations or damage - repair / replace. Check left front pipe clearance from radiator hose - approx. 0.8 in (20 mm),	X	X	X	X		
3.9.2.	Visually check condition and attachment of the muffler - repair / replace	×	×	×	X		
3.9.3.	Check joint security	X	×	X	X		
3.10.	Heating	90				330	2
3.10.1.	Visually check hoses leading air into the cockpit - check hose for condition, integrity, attachment and security		×		×		
3.10.2.	Check condition, function and control of the heating / ∨enting system flaps		×		×		
3.11.	Reinstall lower engine cowling Reinstall lower engine cowling when the inspection is completed and engine test run performed	×	×	X	×		
3.12.	Lubricate per Lubricating Chart	×	×		×		
4.	PROPELLER	MFV	see manı	ufacturer ir	nstructions	+	
4.1.	Blades					**************************************	
4.1.1.	Inspect blades for abrasions, cracks, paint damage, condition of blades leading edges and tips - repair according to the propeller manual	X	X	X	X		
4.2.	Spinner						
4.2.1.	Visually check spinner for condition, abrasions, cracks, paint damage - repair large damage		×	×	×	S.	
4.2.2.	Remove spinner		×	X	X		



SportStar AIRCRAFT MAINTENANCE AND INSPECTION PROCEDURES



			Inspe		Comical	L		
Event #	Event description	after the first 25 hrs.	after the first 50 hrs.	every 50 hrs.	every 100 hrs.	Carried out by:	Inspected by:	
4.3.	Propeller	see	ı <u> </u>			1		
4.3.1.	Check prop attachment, security of bolts		×	1	×			
4.3.2.	Check run-out				×			
4.3.3.	Install spinner		×	×	×	1		
4.3.4.	Check tightening by torque wrench			- -	×			
4.3.5.	Pitch change mechanism (if controllable pitch prop is mounted) Check condition and function according to the prop manufacturer's instructions	see	manufactu	rer instruc				
5.	LANDING GEAR					I.	l	
5.								
	NOSEWHEEL LANDING GEAR							
5.1.	No sewheel leg						ı	
5.1.1.	Check condition and attachment of the nosewheel leg (lift airplane nose)							
<u> </u>		×	X	×	×			
5.2.	Wheel pants	1		1	ı		1	
5.2.1.	Visually check wheel pants or mudguards condition - repair damages and cracks		×		×			
5.2.2.	Remove fairing (reinstall when nosewheel inspection is completed)				×			
5.3.	Rubber rope and rubber suspension stop						l	
5.3.1.	Visually check rubber rope a suspension stop and flexible washer for deformation, cracks, excessive wear - replace if needed		×		×			
5.4.	Tire						,	
5.4.1.	Check tires for condition, cuts, uneven or excessive wear and slippage - replace if needed		×		×			
5.4.2.	Check pressure - inflate to required pressure	×	×	×	×			
5.5.	Wheel					•		
5.5.1.	Visually check for cracks, permanent				×			
	deformations - if damaged, replace							
5.5.2.	rim				×			
5.5.3.	Check condition of bearings, wheel free rotation, play				×			
5.6.	Joints							
5.6.1.	Check torque and security of fixed joints	×	×		×			
5.6.2.	Check nosewheel free rotation inside the leg - the rotation should not be too free to prevent shimmy		X		×			
5.7.	Nosewheel control system							
5.7.1.	Check control rods condition, rod ends security		×		×			
5.7.2.	Check condition of nosewheel control lever covers for wear through - repair damage				×			
5.8.	Lubricate per Lubricating Chart	×	×		×			
6.	LANDING GEAR						I.	
	MAIN LANDING GEAR							
6.1.	Fiberglass legs						,	
6.1.1.	Visually check condition of fiberglass legs - repaint damaged areas, contact airplane manufacturer if cracks were found	×	×	×	×			

Document No.: Date of Issue: Revision: 4-11



AIRCRAFT MAINTENANCE AND INSPECTION PROCEDURES SportStar**



Event	Event description	6	Inspe Tick off perfo	Carried	Inspected		
#		after the first	after the first	every	every	out by:	by:
		25 hrs.	50 hrs.	50 hrs.	100 hrs.	1000000	
3.1.2.	Inspect leg attachment into the fuselage (no			1110.	1115.		
	play) - Lift the landing gear and mo∨e a leg						
	forward-backward, upward-downward; at the		×	X	×		
	same time check wheel play on the axle -						
5.1.3.	tighten attachment bolts if the leg has a play Check torque and security of fixed joints	×	×		×		
3.1.3. 3.1.4.	Check cloth cover which covers the leg-		<u> </u>		<u> </u>	<u> </u>	
/. I. . T	fuselage input hole				×		
3.1.5.	Check grounding				×		
5.2.	Wheel pants or mudguards					L.	
3.2.1.	Visually check wheel pants / mudguards		×			12	
34 10000 112 000	condition - repair damage and cracks		×		×		
3.3.	Tires						P
3.3.1.	Check tires for condition, cuts, uneven or excessive wear and slippage - replace if needed	×	×		X		
6.4.	Wheel					Į.	ļ
6.4.1.	Visually check wheel rims for cracks,					ľ	
	permanent deformations - replace wheel rim in case of cracks				X		
3.4.2.	Check valve condition around the hole in the disc				×		
6.4.3.	Check condition of bearings, wheel free rotation, play		×		X		
6.5.	Brakes						
3.5.1.	Check attachment of brake system plastic hoses to the main leg				X		
6.5.2.	Visually check condition of pads - steady and						
	symmetry abrasion of pads - replace pads if needed		×		×		
6.5.3.	Check wear of the disc and overheating				×	į.	
6.5.4.	Check brake system for leaks - add brake fluid and bleed the system if a brake pedal has soft movement	X	×	X	×		
6.5.5.	By brake fluid replacement clean up and					· ·	
	reseal btake cylinders – once two years						
7.	WING					1	
7.1.	Wing						-
7.1.1.	Visually check condition						
	- no loose rivets, deformations, cracks or any	X	×		X		
	other damage - contact the airplane manufacturer						
7.1.2.	Check play of wing suspensions - move the		-				
	wing tip upward-downward, frontward- rearward				X		
7.1.3.	Check condition and attachment of fiberglass wing tips				×		
7.1.4.	Visual check of riveted joints leakage of integral tank				×		
7.1.5.	Check desludging				×		
7.1.6.	Check wire integrity and grounding				×		
7.1.7.	Check lanels				×		
7.2.	Aileron					Į.	



SportStar** AIRCRAFT MAINTENANCE AND INSPECTION PROCEDURES



Event		E	Inspe Z Tick off perfo	Carried	Inspected		
#	Event description	after the first 25 hrs.	after the first 50 hrs.	every 50 hrs.	every 100 hrs.	out by:	by:
7.2.1.	Visually check condition	×	×		×		
7.2.2.	Check free movement	×	X		×		
7.2.3.	Check aileron hinge	X	X		X		
7.2.4.	Check play		X		×		
7.2.5.	Check security of control rod ends		X	X	X		
7.2.6.	Check grounding				X		
7.2.7.	Remove inspection covers from the lower wing surface to inspect security of control system joints		X		X		
7.2.8.	Lubricate per Lubricating Chart and reinstall covers and completed lever	X	×		X		
7.3.	Flap						
7.3.1.	Fully extend the flaps and visually check condition	X	×		×		
7.3.2.	Check flap hinge	X	×		×		
7.3.3.	Check play		X		×		
7.3.4.	Check condition of flap control pin and wear of the groove at the flap root				X		
7.3.5.	Lubricate per Lubricating Chart	X	X		X		
7.4.	Pitotstatic tube				944201		
7.4.1.	Check pitotstatic tube attachment				×		
7.4.2.	Check pitostatic system for leaks - the airplane manufacturer uses KPU 3 instrument				×		
7.4.3.	Check hoses under pitostatic tube (in bend)				×		
7.4.4.	Check fall sensor				X		
7.4.5. 7.5.	Check safety system		Î			1	
7.5.1.	Wing suspensions Remove wing fillets	×	×		X	Ť	
7.5.2.	Visually check condition of wing suspensions (wing folding mechanism), cleanness of folding system, lubrication	X	×		×		
7.5.3.	Check wear, corrosion			-	×	<u> </u>	
7.5.4.	Check security of joints	×	X		X		
7.6.	Lubricate per Lubricating Chart	X	X		X		
	· · · · · · · · · · · · · · · · · · ·					1	
8.	FUSELAGE						
8.1. 8.1.1.	Fuselage surface Visually check condition - no loose rivets, deformations, cracks or any other damage, corrosion - repair small damage or contact the airplane manufacturer	X	×		×		
8.1.2.	Visually check rivets near the landing gear attachment				X		
8.1.3.	Check condition and attachment of equipment - antenna, beacon etc.				×		
8.1.4.	Check tail skid attachment				X		
8.1.5.	Visually check condition, attachment and operation of towing mechanism (if installed) and lubricate		×	X	×		
8.1.6.	Visually check condition of fiberglass wing fillets		,		X		
8.2.	Cockpit canopy				6	M 5	· · · · · · · · · · · · · · · · · · ·

Document No.: Date of Issue: Revision:



AIRCRAFT MAINTENANCE AND INSPECTION PROCEDURES SportStar**



Event		6	Inspe Tick off perfo	Carried	Inspected		
#	Event description	after the first 25 hrs.	after the first 50 hrs.	every 50 hrs.	every 100 hrs.	out by:	by:
8.2.1.	Visually check canopy condition for - cracks, scratches, any other damage - drill end of cracks	×	×		×		
8.2.2.	Check canopy lock for condition and operation, signalization	X	×		×		
8.2.3.	Check eye-ball vents for condition and operation				X		
8.2.4.	Check gas struts operation - replace those functionless				×		
8.2.5.	Check canopy silicone rubber packing				×		
8.2.6.	Check cabin lighting				×		
8.2.7.	Check cabin dewatering				×		
8.2.8.	Check labels				×		
9.	HORIZONTAL TAIL UNIT						
9.1.	Visually check condition - no loose rivets, deformation, cracks, scratches and any other damage - contact the airplane manufacturer	×	X		X		
9.2.	Visually check condition and attachment of fiberglass tips				X		
9.3.	Check elevator free movement	X	X		X		
9.4.	Check elevator hinge	X	X		X		
9.5.	Check play - move the stabilizer frontward- rearward, upward-downward - contact the airplane manufacturer if play exceeded tolerances		X		X		
9.6.	Check security of joints at control column	X	X		X		
9.7.	Trim tab).					
9.7.1.	Visually check condition		×	×	×		
9.7.2.	Check hinge		X	X	X		
9.7.3.	Check control cables condition				×		
9.7.4.	Check tension of trim tab control cables and check securing the adjusting screws				X		
9.7.5.	Check eletrical trim - functionality				X		
9.8.	Lubricate per Lubricating Chart	X	X		×		
10.	VERTICAL TAIL UNIT	7		***	-	-WA	
10.1.	Visually check condition - no loose rivets, deformation, cracks, scratches and/or other damage - contact the airplane manufacturer	X	X		X		
10.2.	Visually check condition and attachment of fiberglass tips				×		
10.3.	Check rudder free movement	×	×		X		
10.4.	Check rudder suspensions	×	X		X		
10.5.	Check play - move rudder upward- downward	X	×		X		
10.6.	Check joints security	×	X		×		
10.7.	Lubricate per Lubricating Chart	X	X		×		
11.	COCKPIT						
11.1.	Instrument panel						
11.1.1.	Visually check condition and attachment of the instrument panel		×		×		



SportStar AIRCRAFT MAINTENANCE AND INSPECTION PROCEDURES



		5	Inspe		Camiad		
Event #	Event description	after the first 25 hrs.	after the first 50 hrs.	every 50 hrs.	every 100 hrs.	Carried out by:	Inspected by:
11.1.2.	Check condition and attachment of indi∨idual instruments		×		×		
11.1.3.	Check function of instruments				×		
11.1.4.	Check throttle and choke levers free movement and lock	×	×		X		
11.1.5.	Inspect completeness and readability of placards				X		
11.1.6.	Check wire integrity				×		
11.1.7.	Check heating and pre-heating actuator				×		
11.2.	Seats					•	,
11.2.1.	Visually check seat upholstery, remove upholstery				×		
11.2.2.	Visually check seats and backrests condition				×		
11.2.3.	Check for loose rivets or any other damage on the seats				X		
11.2.4.	Visually check main landing gear legs attachment inside the fuselage				X		
11.3.	Safety harness					'	,
11.3.1.	Visually check condition, attachment and security				X		
11.4.	Hand control					'	
11.4.1.	Remove aileron rod covers inside the cockpit		×		×		
11.4.2.	Check hand control free movement	X	×	×	×		
11.4.3.	Check play	×	×		×		
11.4.4.	Check joints security	 X	×		<u> </u>		
11.4.5.	Check control column stops for condition		 		×		
11.4.6.	Pitostatic system drainage, see 2.3.20				×		
11.4.7.	Lubricate per Lubricating Chart	×	×		×		
11.5.	Rudder control		 				
11.5.1.	Check stiffness of movement	×	×	×	×		
11.5.2.	Check joints security	×	×		×		
11.5.3.	Check stops at pedal control cables				×		
11.5.4.	Check condition and security of cables	×	×		 X		
11.5.5.	Check hydraulic brake system for leaks - add	×	×	×	×		
11.5.6.	Lubricate per Lubricating Chart	×	×		×		
11.6.	Flap and trim control, Towing						
	mechanism control						
11.6.1.	Check free movement of levers	×	×	×	×		
11.6.2.	Check operation of flap control lever lock (push button)	×	×		×		
11.6.3.	Lubricate per Lubricating Chart	X	X		×		
11.7.	Complete lubricating per Lubricating Chart	×	×		×		
11.8.	Install seats upholstery and covers						
11.9.	Engine Test Run (see FM)						
	idling throttle and choke levers operation acceleration - deceleration r.p.m. drop with either magneto switched off max. r.p.m.	X	X	X	X		
11.10.	test brake system efficiency Test flight	×	×	×	<u> </u>		
	Clean the airplane surface						
11.11.	(only for ser∨ice station)	×	×	×	×		

Document No.: Date of Issue: Revision: 4-15