



4.4.3 Periodical Inspections Checklists

<b>Model:</b> SPORTSTAR <sup>PLUS</sup>	<b>S/N.:</b>	<b>Hours flown:</b>	<b>Date of inspection:</b>
	<b>Registration:</b>	<b>No. of Takeoffs:</b>	

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

<b>Document No.:</b> SP2006AMIPUS	<b>Date of Issue:</b> December 20, 2006	<b>Revision:</b> -	<b>4-9</b>
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# AIRCRAFT MAINTENANCE AND INSPECTION PROCEDURES



Event #	Event description	Inspection			Carried out by:	Inspected by:
		☑ Tick off performed inspection	after the first	every		
		25 hrs.	50 hrs.	100 hrs.		
<b>3.7.</b>	<b>Cooling system</b>					
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	☑	☑	☑		
3.7.3.	Tighten hose clips if needed		☑	☑		
3.7.4.	Check coolant quantity in the expansion tank - add or change coolant acc. to the engine manual if needed	☑	☑	☑		
3.7.5.	Visually check condition and attachment of overflow bottle on the firewall			☑		
<b>3.8.</b>	<b>Lubrication system</b>					
3.8.1.	Visually check condition and attachment of oil tank			☑		
3.8.2.	Check oil cooler for condition, attachment and leaks	☑	☑	☑		
3.8.3.	Visually check hoses for condition, leaks, attachment and security - replace damaged hoses	☑	☑	☑		
3.8.4.	Check oil quantity - add or change oil acc. to the engine manual if needed	☑	☑	☑		
<b>3.9.</b>	<b>Exhaust system</b>					
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),	☑	☑	☑		
3.9.2.	Visually check condition and attachment of the muffler - repair / replace	☑	☑	☑		
3.9.3.	Check joint security	☑	☑	☑		
<b>3.10.</b>	<b>Heating</b>					
3.10.1.	Visually check hose leading hot air into the cockpit - check hose for condition, integrity, attachment and security		☑	☑		
3.10.2.	Check condition, function and control of the heating flap		☑	☑		
<b>3.11.</b>	<b>Reinstall lower engine cowling</b>					
	Reinstall Upper engine cowling when the inspection is completed and engine test run performed	☑	☑	☑		
<b>3.12.</b>	<b>Lubricate per Lubricating Chart</b>	☑	☑	☑		
<b>4.</b>	<b>PROPELLER</b>	see manufacturer instructions +				
<b>4.1.</b>	<b>Blades</b>					
4.1.1.	Inspect blades for abrasions, cracks, paint damage, condition of blades leading edges and tips - repair according to the propeller manual	☑	☑	☑		
<b>4.2.</b>	<b>Spinner</b>					
4.2.1.	Visually check spinner for condition, abrasions, cracks, paint damage - repair large damage		☑	☑		
4.2.2.	Remove spinner		☑	☑		



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		☑ Tick off performed inspection after the first <b>25</b> hrs.	every <b>50</b> hrs.	every <b>100</b> hrs.		
<b>4.3.</b>	<b>Propeller</b>	see manufacturer instructions +				
4.3.1.	Check prop attachment, security of bolts		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>		
4.3.2.	Check run-out			<input checked="" type="checkbox"/>		
4.3.3.	Install spinner			<input checked="" type="checkbox"/>		
4.3.4.	Pitch change mechanism (if controllable pitch prop is mounted) Check condition and function according to the prop manufacturer's instructions	see manufacturer instructions				
<b>5.</b>	<b>LANDING GEAR NOSEWHEEL LANDING GEAR</b>					
<b>5.1.</b>	<b>Nosewheel leg</b>					
5.1.1.	Check condition and attachment of the nosewheel leg (lift airplane nose)	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>		
<b>5.2.</b>	<b>Wheel pants</b>					
5.2.1.	Visually check wheel pants or mudguards condition - repair damages and cracks		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>		
5.2.2.	Remove fairing (reinstall when nosewheel inspection is completed)			<input checked="" type="checkbox"/>		
<b>5.3.</b>	<b>Rubber rope and rubber suspension stop</b>					
5.3.1.	Visually check rubber rope a suspension stop for deformation, cracks, excessive wear - replace if needed		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>		
<b>5.4.</b>	<b>Tire</b>					
5.4.1.	Check tires for condition, cuts, uneven or excessive wear and slippage - replace if needed		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>		
5.4.2.	Check pressure - inflate to required pressure	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>		
<b>5.5.</b>	<b>Wheel</b>					
5.5.1.	Visually check for cracks, permanent deformations - if damaged, replace			<input checked="" type="checkbox"/>		
5.5.2.	Check valve condition around the hole in the rim			<input checked="" type="checkbox"/>		
5.5.3.	Check condition of bearings, wheel free rotation, play			<input checked="" type="checkbox"/>		
<b>5.6.</b>	<b>Joints</b>					
5.6.1.	Check torque and security of fixed joints	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>		
5.6.2.	Check nosewheel free rotation inside the leg - the rotation should not be too free to prevent shimmy		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>		
<b>5.7.</b>	<b>Nosewheel control system</b>					
5.7.1.	Check control rods condition, rod ends security		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>		
5.7.2.	Check condition of nosewheel control lever covers for wear through - repair damage			<input checked="" type="checkbox"/>		
<b>5.8.</b>	<b>Lubricate per Lubricating Chart</b>					
		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>		
<b>6.</b>	<b>LANDING GEAR MAIN LANDING GEAR</b>					
<b>6.1.</b>	<b>Fiberglass legs</b>					
6.1.1.	Visually check condition of fiberglass legs - repaint damaged areas, contact airplane manufacturer if cracks were found	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>		



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		<input checked="" type="checkbox"/> Tick off performed inspection after the first <b>25</b> hrs.	every <b>50</b> hrs.	every <b>100</b> hrs.		
6.1.2.	Inspect leg attachment into the fuselage (no play) - Lift the landing gear and move a leg forward-backward, upward-downward; at the same time check wheel play on the axle - tighten attachment bolts if the leg has a play		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>		
6.1.3.	Check torque and security of fixed joints	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>		
6.1.4.	Check cloth cover which covers the leg-fuselage input hole			<input checked="" type="checkbox"/>		
<b>6.2.</b>	<b>Wheel pants or mudguards</b>					
6.2.1.	Visually check wheel pants / mudguards condition - repair damage and cracks		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>		
<b>6.3.</b>	<b>Tires</b>					
6.3.1.	Check tires for condition, cuts, uneven or excessive wear and slippage - replace if needed	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>		
<b>6.4.</b>	<b>Wheel</b>					
6.4.1.	Visually check wheel rims for cracks, permanent deformations - replace wheel rim in case of cracks			<input checked="" type="checkbox"/>		
6.4.2.	Check valve condition around the hole in the disc			<input checked="" type="checkbox"/>		
6.4.3.	Check condition of bearings, wheel free rotation, play		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>		
<b>6.5.</b>	<b>Brakes</b>					
6.5.1.	Check attachment of brake system plastic hoses to the main leg			<input checked="" type="checkbox"/>		
6.5.2.	Visually check condition of pads - steady and symmetry abrasion of pads - replace pads if needed		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>		
6.5.3.	Check wear of the disc			<input checked="" type="checkbox"/>		
6.5.4.	Check brake system for leaks - add brake fluid and bleed the system if a brake pedal has soft movement	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>		
<b>7.</b>	<b>WING</b>					
<b>7.1.</b>	<b>Wing</b>					
7.1.1.	Visually check condition - no loose rivets, deformations, cracks or any other damage - contact the airplane manufacturer	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>		
7.1.2.	Check play of wing suspensions - move the wing tip upward-downward, frontward-rearward			<input checked="" type="checkbox"/>		
7.1.3.	Check condition and attachment of fiberglass wing tips			<input checked="" type="checkbox"/>		
<b>7.2.</b>	<b>Aileron</b>					
7.2.1.	Visually check condition	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>		
7.2.2.	Check free movement	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>		
7.2.3.	Check aileron hinge	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>		
7.2.4.	Check play		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>		
7.2.5.	Check security of control rod ends	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>		
7.2.6.	Lubricate per Lubricating Chart	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>		
7.2.7.	Remove inspection covers from the lower wing surface to inspect security of control system joints			<input checked="" type="checkbox"/>		
7.2.8.	Lubricate per Lubricating Chart and reinstall covers	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>		

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**Document No.:  
SP2006AMIPUS**

**Date of Issue:  
December 20, 2006**

**Revision:**

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		☑ Tick off performed inspection after the first <b>25</b> hrs.	every <b>50</b> hrs.	every <b>100</b> hrs.		
<b>7.3.</b>	<b>Flap</b>					
7.3.1.	Fully extend the flaps and visually check condition	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>		
7.3.2.	Check flap hinge	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>		
7.3.3.	Check play		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>		
7.3.4.	Check condition of flap control pin and wear of the groove at the flap root			<input checked="" type="checkbox"/>		
7.3.5.	Lubricate per Lubricating Chart	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>		
<b>7.4.</b>	<b>Pitotstatic tube</b>					
7.4.1.	Check pitotstatic tube attachment			<input checked="" type="checkbox"/>		
7.4.2.	Check pitotstatic system for leaks - the airplane manufacturer uses KPU 3 instrument			<input checked="" type="checkbox"/>		
<b>7.5.</b>	<b>Wing suspensions</b>					
7.5.1.	Remove wing fillets	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>		
7.5.2.	Visually check condition of wing suspensions (wing folding mechanism), cleanness of folding system, lubrication	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>		
7.5.3.	Check wear, corrosion			<input checked="" type="checkbox"/>		
7.5.4.	Check security of joints	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>		
<b>7.6.</b>	<b>Lubricate per Lubricating Chart</b>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>		
<b>8.</b>	<b>FUSELAGE</b>					
<b>8.1.</b>	<b>Fuselage surface</b>					
8.1.1.	Visually check condition - no loose rivets, deformations, cracks or any other damage - repair small damage or contact the airplane manufacturer	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>		
8.1.2.	Visually check rivets near the landing gear attachment			<input checked="" type="checkbox"/>		
8.1.3.	Check condition and attachment of equipment - antenna, beacon etc.			<input checked="" type="checkbox"/>		
8.1.4.	Check tail skid attachment			<input checked="" type="checkbox"/>		
8.1.5.	Visually check condition, attachment and operation of towing mechanism (if installed)		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>		
8.1.6.	Visually check condition of fiberglass wing fillets			<input checked="" type="checkbox"/>		
<b>8.2.</b>	<b>Cockpit canopy</b>					
8.2.1.	Visually check canopy condition for - cracks, scratches, any other damage - drill end of cracks	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>		
8.2.2.	Check canopy lock for condition and operation	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>		
8.2.3.	Check vent windows for condition and operation			<input checked="" type="checkbox"/>		
8.2.4.	Check gas struts operation - replace those functionless			<input checked="" type="checkbox"/>		
8.2.5.	Check canopy rubber packing			<input checked="" type="checkbox"/>		
<b>9.</b>	<b>HORIZONTAL TAIL UNIT</b>					
9.1.	Visually check condition - no loose rivets, deformation, cracks, scratches and any other damage - contact the airplane manufacturer	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>		
9.2.	Visually check condition and attachment of fiberglass tips			<input checked="" type="checkbox"/>		
9.3.	Check elevator free movement	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>		



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		<input checked="" type="checkbox"/> Tick off performed inspection after the first <b>25</b> hrs.	every <b>50</b> hrs.	every <b>100</b> hrs.		
9.4.	<b>Check elevator hinge</b>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>		
9.5.	<b>Check play</b> - move the stabilizer forward-rearward, upward-downward - contact the airplane manufacturer if play exceeded tolerances		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>		
9.6.	<b>Check security of joints at control column</b>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>		
9.7.	<b>Trim tab</b>					
9.7.1.	Visually check condition		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>		
9.7.2.	Check hinge		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>		
9.7.3.	Check control cables condition			<input checked="" type="checkbox"/>		
9.7.4.	Check tension of trim tab control cables and check securing the adjusting screws			<input checked="" type="checkbox"/>		
9.8.	<b>Lubricate per Lubricating Chart</b>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>		
10.	<b>VERTICAL TAIL UNIT</b>					
10.1.	<b>Visually check condition</b> - no loose rivets, deformation, cracks, scratches and/or other damage - contact the airplane manufacturer	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>		
10.2.	<b>Visually check condition and attachment of fiberglass tips</b>			<input checked="" type="checkbox"/>		
10.3.	<b>Check rudder free movement</b>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>		
10.4.	<b>Check rudder suspensions</b>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>		
10.5.	<b>Check play</b> - move rudder upward-downward			<input checked="" type="checkbox"/>		
10.6.	<b>Check joints security</b>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>		
10.7.	<b>Lubricate per Lubricating Chart</b>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>		
11.	<b>COCKPIT</b>					
11.1.	<b>Instrument panel</b>					
11.1.1.	Visually check condition and attachment of the instrument panel		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>		
11.1.2.	Check condition and attachment of individual instruments		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>		
11.1.3.	Check function of instruments			<input checked="" type="checkbox"/>		
11.1.4.	Check throttle and choke levers free movement and lock	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>		
11.1.5.	Inspect completeness and readability of placards			<input checked="" type="checkbox"/>		
11.2.	<b>Seats</b>					
11.2.1.	Visually check seat upholstery, remove upholstery			<input checked="" type="checkbox"/>		
11.2.2.	Visually check seats and backrests condition			<input checked="" type="checkbox"/>		
11.2.3.	Check for loose rivets or any other damage on the seats			<input checked="" type="checkbox"/>		
11.2.4.	Visually check main landing gear legs attachment inside the fuselage			<input checked="" type="checkbox"/>		
11.3.	<b>Safety harness</b>					
11.3.1.	Visually check condition, attachment and security			<input checked="" type="checkbox"/>		
11.4.	<b>Hand control</b>					
11.4.1.	Remove aileron rod covers inside the cockpit		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>		
11.4.2.	Check hand control free movement	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>		
11.4.3.	Check play	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>		
11.4.4.	Check joints security	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>		
11.4.5.	Check control column stops for condition			<input checked="" type="checkbox"/>		

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Document No.:  
**SP2006AMIPUS**

Date of Issue:  
**December 20, 2006**

Revision:  
-



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11.4.6.	Pitostatic system drainage, see 2.3.20			☑		
11.4.7.	Lubricate per Lubricating Chart	☑	☑	☑		
<b>11.5.</b>	<b>Rudder control</b>					
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	☑	☑	☑		
11.5.5.	Check hydraulic brake system for leaks - add brake fluid if needed	☑	☑	☑		
11.5.6.	Lubricate per Lubricating Chart	☑	☑	☑		
<b>11.6.</b>	<b>Flap and trim control, Towing mechanism control</b>					
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	☑	☑	☑		
<b>11.7.</b>	<b>Complete lubricating per Lubricating Chart</b>	☑	☑	☑		
<b>11.8.</b>	<b>Install seats upholstery and covers</b>					
<b>11.9.</b>	<b>Engine Test Run (see FM)</b>					
	<ul style="list-style-type: none"> <li>• idling</li> <li>• throttle and choke levers operation</li> <li>• acceleration - deceleration</li> <li>• r.p.m. drop with either magneto switched off</li> <li>• max. r.p.m.</li> <li>• test brake system efficiency</li> </ul>	☑	☑	☑		
<b>11.10.</b>	<b>Test flight</b>	☑	☑	☑		
<b>11.11.</b>	<b>Clean the airplane surface (only for service station)</b>	☑	☑	☑		