

Propeller

According "TN 2 for AS-Propeller" the AS2F1 is subject to an operating time limit.

Fuel Hoses

Upon accomplishment of **TN 25** - on new-build ASH 25 M or as retrofit - the rubber fuel hoses can be replaced for fuel lines made from PUR which are without service life limit. Their service life is "on condition".

The previous fuel hoses made from Elastomers have a limited service life. External effects may impair the hose characteristic so that operational safety may no longer be assumed after expiry of the limit life. These rubber fuel hoses have a maximum service life of **five** years. The storage time of not yet fitted hoses must not exceed **four** years as of their curing date.

PUR fuel line hoses can be recognized by their slit fabric sheathing (through which the condition of the transparent hoses can be checked) or in the engine compartment by their red fire protection wrapping.

Fuel lines from Elastomers (rubber fuel hoses) can be recognized by their metal-braiding.

Flexible Wing Fuel Tanks

The flexible fuel tanks are subject to a service life limitation. The service life is specified in the "Fitting and Test Instructions for HFK T-LF", in the currently valid edition.

CRP Exhaust Fairing

Because of the extreme heat development the CRP exhaust fairing has a limited service life of 150 operating hours. After this period, the fairing must be replaced for an upgraded fairing which is available from SCHLEICHER since November 1999.

ONLY APPLICABLE TO U.S. REGISTERED AIRCRAFT:

4.3 Airworthiness Limitations

This Airworthiness Limitations Section is FAA approved for US registered aircraft.

In addition, this section is required by FAA Type Certificate Data Sheet Number G03CE and in accordance with the provisions of 14CFR Sections 43.16 and 91.403.

Information on Service Life, Special Servicing Procedures and Equipment Subject to Service Life Limitations are contained in the previous Sections 4.1 and 4.2.

Only applicable to US-registered aircraft!

Record of Revisions

Revision No.	Affected Page(s)	Description	LBA-approved Signature	Date of Revision

After one year:

- Inspect the engine in accordance with the Engine Manual.
- Check coolant level and its anti-freeze contents.
- Remove residuals caused by oil, exhaust gases and fuel from power-plant and engine compartment wherever access is possible with the power-plant installed.

After three years:

- Inspection and maintenance works as prescribed in the Engine Manual.

After five years:

- Replace all rubber fuel hose lines.

Note: Upon accomplishment of **TN 25** on ASH 25 M the rubber fuel hoses can be replaced for fuel lines made from PUR which are without service life limit. See Section 4.2!

b.) Once-Only Maintenance Tasks

After 1 hour and every time the propeller has been reinstalled respectively after 1 hour:

- Check and re-tighten the six mounting bolts of the propeller (observe the prescribed torque settings given in Section 5.3!).

Once-only Maintenance after 1 hour:	Retighten M8 bolts at prop.flange (1)	Engine Hours Period						Years Period				
		0 - 150			450 - 600			1 - 5				
		150 - 300			600 - 750			5 - 10				
Maintenance Task at different intervals:		Hour Intervals						Year Intervals				
		25	50	75	100	125	150	1	2	3	4	5
Coolant level check		<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>					
Retighten propeller bolts		<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>					
Check elastic tensioning cords of engine comptmt.doors		<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>					
Check guide pulleys		<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>					
Clean power-plant (while installed) & engine compartmt.		<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>					
Replace fuel filter		<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>					
Check fuel hose lines		<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>					
Disassemble and clean drainer valve		<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>					
Check electric wiring		<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>					
Inspect throttle control cables & prop. brake		<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>					
Check & adjust idling speed		<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>					
Check firm seating of engine mounting bolts		<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>					
Check locking wire for the rear engine mounting bolt		<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>					
Check gas strut/extending spindle		<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>					
Inspect rubber suspension buffers of engine mounting for cracks or other changes		<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>					
Check engine compartment door hinges for firm seat or cracks		<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>					
Check propeller stop block for function. If required, replace.		<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>					
Check & retighten 4 lateral set screws at the propeller head		<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>					
Check secure seat of the lock nuts for the 3 tighteners		<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>					
Check propeller shaft for radial play in the bearing seatings		<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>					
Oil sliding fit of front propeller bearing		<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>					
Inspect engine as per engine manual Section 5 Maintenance Schedule			<input type="radio"/>		<input type="radio"/>		<input type="radio"/>					
Check timing belt for wear			<input type="radio"/>		<input type="radio"/>		<input type="radio"/>					
Check belt pulleys for wear			<input type="radio"/>		<input type="radio"/>		<input type="radio"/>					
Check exhaust noise emission during engine ground run			<input type="radio"/>		<input type="radio"/>		<input type="radio"/>					
Inspect engine as per engine manual					<input type="radio"/>							
Inspect belt pulley bearings for play in the ball bearings					<input type="radio"/>							
Inspect engine as per engine manual							<input type="radio"/>					
Disassemble and check exhaust silencer and its CFRP fairing							<input type="radio"/>					
Inspect rubber coupling between crank shaft and lower drive pulley for cracks							<input type="radio"/>					
Inspect engine as per engine manual								<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Check coolant level and its anti-freeze contents								<input type="radio"/>				
Clean power-plant (while installed) & engine compartment								<input type="radio"/>				
Inspect engine as per engine manual										<input type="radio"/>		
Replace all rubber fuel hose lines (not applicable if PUR fuel lines installed, see section 4.2)												<input type="radio"/>

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