

7.2.1 Maintenance and Inspections

a.) Periodic Maintenance Tasks

Daily (Pre-Flight): See Flight Manual Section 4.3 !

Every 25 hours:

- Check coolant level and top-up where required. See also Section 2.3.1.6 in this manual.
- Re-tighten the six mounting bolts at the propeller flange. (After any re-installation this must be done already after one hour; observe the prescribed torque settings!).
- Examine the elastic tensioning cords of the engine compartment doors. Where necessary replace.
- With the propeller retracted the drive belt allows access to the guide pulleys [36]; check the bearing of the pulleys for play and friction by rotating them (ball bearing damaged?).
- Remove residuals caused by oil, exhaust gases and fuel from power-plant and engine compartment wherever access is possible with the power-plant installed.
- Replace fuel filter behind the left fuselage tank (e.g. with type Mercedes Benz 001 477 4201 or Pierburg PE 1569; on no account use paper filters!).

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- Remove drainer valve and clean gaskets.
- Examine fuel hoses for condition, leaks and abrasions.
- Check condition of cables and electrical connections, watch for possible abrasions.
- Check control cables and their control levers etc. for stiffness and abrasions.
- If required, adjust idling speed (see Sect.2.3.1.8)
- Check secure seating of engine mounting bolts and re-tighten if necessary (observe torque settings listed in Section 5.3!). Check locking wires securing the bolts of the rear power-plant mounting in the fuselage.
- Inspect the extending spindle gas strut. If extending takes significantly more time than retracting, replace the gas strut.
- Examine the rubber elements of the power-plant suspension mounting for cracks or other changes.
- Check the engine compartment door hinges for secure seating and cracks.
- Check propeller stop block for correct functioning; replace if necessary.
- Check the 4 lateral set screws [33] at the propeller head and re-tighten.
- Check the secure seat of the lock nuts for the three tighteners [34].

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POWER-PLANT MAINTENANCE INTERVALS

Once-only Maintenance after 1 hour:	
Retighten M8 bolts at prop.flange	<input type="checkbox"/>

Engine Hours Period				Years Period	
0 - 150	<input type="checkbox"/>	450 - 600	<input type="checkbox"/>	1 - 5	<input type="checkbox"/>
150 - 300	<input type="checkbox"/>	600 - 750	<input type="checkbox"/>	5 - 10	<input type="checkbox"/>
300 - 450	<input type="checkbox"/>	750 - 900	<input type="checkbox"/>	10 - 15	<input type="checkbox"/>

Wartungsarbeiten nach folgenden Intervallen:

	Hour Intervals						Year Intervals				
	25	50	75	100	125	150	1	2	3	4	5
Coolant level check	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>					
Retighten propeller bolts	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>					
Check elastic tensioning cords of engine comptmt.doors	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>					
Check guide pulleys	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>					
Clean power-plant (while installed) & engine compartmt.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>					
Replace fuel filter	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>					
Check fuel hose lines	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>					
Disassemble and clean drainer valve	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>					
Check electric wiring	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>					
Inspect throttle control cables & prop. brake	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>					
Check & adjust idling speed	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>					
Check firm seating of engine mounting bolts	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>					
Check locking wire for the rear engine mounting bolt	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>					
Check gas strut/extending spindle	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>					
Inspect rubber suspension buffers of engine mounting for cracks or other changes	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>					
Check engine compartment door hinges for firm seat or cracks	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>					
Check propeller stop block for function. If required, replace.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>					
Check & retighten 4 lateral set screws at the propeller head	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>					
Check secure seat of the lock nuts for the 3 tighteners	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>					
Check propeller shaft for radial play in the bearing seatings	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>					
Oil sliding fit of front prop.bearing	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>					
Inspect engine as per engine manual Section 5 Maintenance Schedule		<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>					
Check timing belt for wear		<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>					
Check belt pulleys for wear		<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>					
Check exhaust noise emission during engine ground run		<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>					
Inspect engine as per engine manual				<input type="checkbox"/>							
Inspect belt pulley bearings for play in the ball bearings				<input type="checkbox"/>							
Inspect engine as per engine manual						<input type="checkbox"/>					
Disassemble and check exhaust silencer and its CFRP fairing						<input type="checkbox"/>					
Inspect rubber coupling between crank shaft and lower drive pulley for cracks						<input type="checkbox"/>					
Inspect engine as per engine manual							<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Check coolant level and its anti-freeze contents							<input type="checkbox"/>				
Clean power-plant (while installed) & engine compartment							<input type="checkbox"/>				
Inspect engine as per engine manual									<input type="checkbox"/>		
Replace all rubber fuel hose lines											<input type="checkbox"/>

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