

Major Inspections

Major Inspections are also highlighted in red and accompanied by the word “and” or “only” (see Special Inspections). They are thorough, in-depth inspections that determine whether or not the load-bearing components have incurred any wear/damage that may affect the airworthiness of the aircraft.

Scheduled Inspection Report			
Make: PIPISTREL ALPHA Trainer	Model: ALPHA Trainer (Rotax 912 UL) ALPHA Club	Serial Number:	Registration Number:
Owner:	Date:	Place:	
Type of Inspection: [] 50 Hour [] 100 Hour	[] Annual [] 200 Hour [] 500 Hour [] 1000 Hour [] 10000 Hour	Operating Time: Flight Hours: Landings:	

Item No.	Pre-Inspection	ATA Ref	50 Hr	Annual/ 100 Hr	200 Hr	500 Hr	1000 Hr	10000 Hr
1	Wash and clean the aircraft fully (external and internal)	12-20: 2.6.	[]	[x]	[]	[]	[]	[]
2	Operational/Functional Check Perform an airplane run-up in accordance with Operational Check in 05-30. Record of all abnormalities during the inspection. After completing the Operational Check, perform a walk around to detect fluid leaks or other abnormalities.	05-30	[]	[x]	[]	[]	[]	[]
3	Review compliance status with current NAA Aviation Regulations. This includes inspection of the following: - Aircraft Log Book - Registration Certificate - Certificate of Airworthiness - Weight and Balance Record - NAA Airworthiness Directives - POH NOTE: Please refer to Pipistrel Website and Tech Pub Portal for the current status of all Pipistrel documents that apply to the the airplane.	-	[]	[x]	[]	[]	[]	[]

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SCHEDULED MAINTENANCE

Item No.	Engine Group	ATA Ref	50 Hr	Annual/ 100 Hr	200 Hr	500 Hr	1000 Hr	10000 Hr
1	25 Hour Inspection On new, rebuilt, or overhauled engine, perform complete 100-Hour Engine Inspection in accordance with the manufacturer's approved Instructions for Continued Airworthiness, see [1]; *Special Inspection: Only first 25 hours,		[]	[]	[]	[]	[]	[]
2	Perform 100-Hour Engine Inspection in accordance with the manufacturer's approved Instructions for Continued Airworthiness, see [1] chapter 05-20-00 *Special inspection: and if more than 30% of AV-GAS is used.		[*]	[x]	[]	[]	[]	[]
3	Engine Cowling - Perform visual Inspection Perform operational inspection of oil filler door.	05-20	[]	[x]	[]	[]	[]	[]
4	Foam baffling/seals - Visual Inspection, replace if necessary	05-20 71-00: 2.2.	[]	[x]	[]	[]	[]	[]
5	Throttle and choke cable connections on hot side of firewall - Visual Inspection + lubrication	05-20 12-20 76-00: 2.2.1. 53-30: 2.1.1.	[]	[x]	[]	[]	[]	[]
6	Gascolator - Visual inspection and inspection/cleaning *Special Inspection: and after first 5 and 50 hours	05-20 28-20: 2.1.3.	[]	[x]	[]	[]	[]	[]
7	Exhaust System Visual Inspection for soot, distortion, general condition.	05-20	[]	[x]	[]	[]	[]	[]
8	Engine cooling air inlet and diffuser - Visual Inspection	05-20	[]	[]	[x]	[]	[]	[]
9	Exhaust System Perform inspection/check *100 hours for standard exhaust system, 500 hours for either of the Akrapovič systems	05-20 78-20: 2.1	[]	[]	[]	[x]	[]	[]
10	Engine mount and mounting fixture - Perform inspections/checks	71-20: 2.1.1. 71-20: 2.2.1.	[]	[x]	[]	[]	[]	[]
11	Firewall - Perform inspection/check	53-30: 2.1.1.	[]	[]	[]	[]	[x]	[]
12	Battery cables - Visual inspection	05-20	[]	[x]	[]	[]	[]	[]
13	Lubrication- Time interval is 100 or 200 hours depending on the component.	12-20: 2.5.	[]	[]	[]	[]	[]	[]
14	Vibration damping isolators	71-20: 2.2.1	[]	[]	[]	[]	[]	[]
16	Carburetor drip collector line - Inspection/check	71-70: 2.1.1.	[]	[x]	[]	[]	[]	[]
17	Oil reservoir breather line - Inspection/check	71-70: 2.2.1.	[]	[x]	[]	[]	[]	[]

Item No.	Propeller Group	ATA Ref	50 Hr	Annual/ 100 Hr	200 Hr	500 Hr	1000 Hr	10000 Hr
1	Spinner * See applicable propeller manual [10]		[]	[X]	[]	[]	[]	[]
2	Blades * See applicable propeller manual [10]		[]	[X]	[]	[]	[]	[]
3	Propeller Hub * See applicable propeller manual [10]		[]	[X]	[]	[]	[]	[]

Item No.	Cabin Group	ATA Ref	50 Hr	Annual/ 100 Hr	200 Hr	500 Hr	1000 Hr	10000 Hr
1	Cabin windows and windshield - Visual Inspection for cracking, crazing, and general condition. Perform inspections/checks	05-20 56-00	[]	[X]	[]	[]	[]	[]
2	Magnetic Compass - Visual Inspection	05-20	[]	[X]	[]	[]	[]	[]
3	Placards and Instrument Markings - Visual Inspection for conformity, security, and condition. Replace if necessary.	05-20 11-20	[]	[X]	[]	[]	[]	[]
4	Upholstery - Visual Inspection	05-20	[]	[]	[]	[X]	[]	[]
5	Seats Visual and operational inspection	05-20	[]	[X]	[]	[]	[]	[]
6	Seats - Operational inspection: pneumatic pump/backrest bladder	05-20	[]	[]	[]	[X]	[]	[]
7	Safety harnesses Visual and operational inspection	05-20	[]	[X]	[]	[]	[]	[]
8	Instrument Panel Visual Inspection	05-20	[]	[X]	[]	[]	[]	[]
9	Avionics + Switch panel Master switch ON - Avionics switch ON. Perform visual and operational inspection	05-20	[]	[]	[X]	[]	[]	[]
10	Control stick + control stick drive - Perform inspections/checks *Major Inspection: Only every 3000 Hr (see 27-30: 2.4.2. and 27-30: 2.5.2.).	27-30: 2.4.1. 27-30: 2.5.1.	[]	[X]	[]	[]	[]	[]
11	Wiring behind the instrument and switch panel – Perform inspection/check	05-20 31-10: 2.3.3. 31-10: 2.11.	[]	[]	[]	[X]	[]	[]
12	Rudder Control System - Perform inspections/checks	27-20: 2.1.3. 27-20: 2.3. 27-20: 2.2.1.	[]	[X]	[]	[]	[]	[]
13	Brake actuation hand lever - Visual and operational Inspection	05-20	[]	[X]	[]	[]	[]	[]
14	Flexible Brake Hoses - Visual Inspection -	05-20	[]	[]	[X]	[]	[]	[]
15	Fuel System Perform inspection/check	28-20: 2.3.3. 28-20: 2.4.1.	[]	[]	[X]	[]	[]	[]
16	Cabin Doors - Perform inspection/check	52-10: 2.1.3.	[]	[X]	[]	[]	[]	[]

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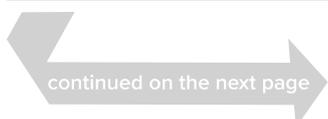
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SCHEDULED MAINTENANCE

Item No.	Cabin Group	ATA Ref	50 Hr	Annual/ 100 Hr	200 Hr	500 Hr	1000 Hr	10000 Hr
16	Cabin Doors - Perform inspection/check	52-10: 2.1.3.	[]	[x]	[]	[]	[]	[]
17	Wing spar fastening material – Remove wings and perform visual inspection of wings spar pins/bolt	05-20 57-10: 2.1.1.	[]	[]	[x]	[]	[]	[]
19	Rudder Control System - Perform inspections/checks	27-20: 2.1.2. 27-20: 2.2.1. 27-20: 2.1.3.	[]	[]	[x]	[]	[]	[]
20	Ventilation system – Adjustable circular vents Visual and operational inspection	05-20	[]	[]	[x]	[]	[]	[]
21	GRS ballistic parachute rescue system activation handle - Perform inspection/check	95-00: 2.1.1.	[]	[]	[]	[x]	[]	[]
22	HORIS - Kanardia (if installed) – Visual inspection - see OEM Documentation	05-20	[]	[]	[]	[]	[]	[]
23	Battery installation – Visual inspection of mounting bracket, cables, terminals	05-20	[]	[x]	[]	[]	[]	[]
24	Battery installation – Perform inspection/check	24-30: 2.1.2.	[]	[]	[x]	[]	[]	[]
25	Flaperon control system - Perform inspections/checks *Major Inspection: Only every 3000 FH (see 27-50: 2.4.2.).	27-50: 2.1.1. 27-50: 2.2.1. 27-50: 2.3. 27-50: 2.4.1. 27-50: 2.5.1.	[]	[]	[x]	[]	[]	[]
26	Brake system hydraulic fluid Check and replenish if necessary	12-10: 2.5.	[]	[x]	[]	[]	[]	[]
27	Cabin floor - Perform inspection/check + tap test	53-20: 2.1.1.	[]	[]	[]	[x]	[]	[]
28	Elevator control system - Perform inspections/checks *Major Inspection: Only every 3000 FH (27-30: 2.2.2.).	27-30: 2.2.1. 27-30: 2.3.1. 27-30: 2.1.	[]	[]	[x]	[]	[]	[]
29	Fuel filter and fuel pump Perform inspection/check *Special Inspection: and after first 5 hours	28-20: 2.3.3.	[]	[x]	[]	[]	[]	[]
30	Lubrication - Time interval is 100 or 200 hours depending on the component.	12-20: 2.5.	[]	[]	[]	[]	[]	[]
31	ELT - Visual inspection	05-20	[]	[]	[x]	[]	[]	[]
32	ELT - Special Inspection in accordance with NAA: Only every 24 months or earlier if required by NAA where the aircraft is registered. See [11]/[12] and contact NAA	-	[]	[]	[]	[]	[]	[]
33	Transponder - Special Inspection in accordance with NAA: Only every 24 months or earlier if required by NAA where the aircraft is registered. See [8] and contact NAA	-	[]	[]	[]	[]	[]	[]
34	Air-brake control system - Perform inspections/checks	27-60: 2.1.1. 27-60: 2.2.1.	[]	[]	[x]	[]	[]	[]
35	Flight compartment - Inspection/check	33-10: 2.1.1.	[]	[]	[]	[]	[]	[]
36	Pitot-static system test - *Special inspection in accordance with NAA: Only every 24 months or as required by the local NAA	34-10	[]	[]	[]	[]	[]	[]

Item No.	Landing Gear Group - Standard Brakes	ATA Ref	50 Hr	Annual/ 100 Hr	200 Hr	500 Hr	1000 Hr	10000 Hr
1	Main Landing Gear Fairings - Visual inspection	05-20	[]	[x]	[]	[]	[]	[]
2	Nose Landing Gear Fairing - Visual inspection	05-20 32-20: 2.1.1.	[]	[x]	[]	[]	[]	[]
3	Tires - Visual inspection and check/replenish tire pressure	05-20 12-10: 2.4.	[]	[x]	[]	[]	[]	[]
4	Wheels - Visual and operational inspection. Replace bearings on condition.	05-20	[]	[x]	[]	[]	[]	[]
5	Brake system - Perform inspection/check - Visual Inspection for leaks, chafing, security, and condition.	32-42: 2.1.1. 32-42: 2.2.2.	[]	[]	[x]	[]	[]	[]
6	Nose gear - Perform Inspection/Check	32-20: 2.2.1. 32-50: 2.1.1.	[]	[x]	[]	[]	[]	[]
7	Main landing gear strut - Perform inspection/check. Major Inspection if equipped with MLG strut access patch (see Figure 32-003): Only every 2000 hours (see 32-10: 2.1.2.) or after a hard landing (see 05-50: 2.2.)	32-10: 2.1.1.	[]	[x]	[]	[]	[]	[]
8	Nose gear fork - Perform Inspection/Check	32-20: 2.2.1.	[]	[]	[x]	[]	[]	[]

Item No.	Landing Gear Group - Beringer	ATA Ref	50 Hr	Annual/ 100 Hr	200 Hr	500 Hr	1000 Hr	10000 Hr
1	Main Landing Gear Fairings - Visual inspection	05-20 32-20: 2.1.3.	[]	[x]	[]	[]	[]	[]
2	Nose Landing Gear Fairing - Visual inspection	05-20	[]	[x]	[]	[]	[]	[]
3	Prop up one side of the aircraft.	07-10: 2.1.1.	[]	[x]	[]	[]	[]	[]
4	Tires - Visual inspection and check/replenish tire pressure	05-20 12-10: 2.4.	[]	[x]	[]	[]	[]	[]
5	Wheels - Perform inspection/check	32-41: 2.2.3	[]	[x]	[]	[]	[]	[]
6	Brake system - Perform inspection/check	32-42: 2.2.1. 32-42: 2.4.1.	[]	[x]	[]	[]	[]	[]
7	Measure brake pad thickness. If pads are less than 1 mm thick or wear indicator is invisible, remove pads, perform inspection/check and install new pads.	32-41: 2.2.1. [v1] 32-42: 2.4.1. 32-41: 2.2.2.	[]	[x]	[]	[]	[]	[]
8	Measure brake discs thickness. If discs are less than 2.8 mm thick, remove discs, perform inspection/check and install new discs.	32-41: 2.2.1. [v1] 32-42: 2.4.3. 32-41: 2.2.2.	[]	[x]	[]	[]	[]	[]
9	Remove the landing gear stand from under the landing gear strut. Prop up the other side of the aircraft and perform steps 5 to 8 on the other wheel/ brake system.	07-10: 2.1.1.	[]	[x]	[]	[]	[]	[]
10	Remove the landing gear stand from under the landing gear strut.	07-10: 2.1.1.	[]	[x]	[]	[]	[]	[]



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SCHEDULED MAINTENANCE

Item No.	Landing Gear Group - Beringer	ATA Ref	50 Hr	Annual/ 100 Hr	200 Hr	500 Hr	1000 Hr	10000 Hr
11	Nose gear - Perform Inspection/Check	32-20: 2.2.1.	[]	[X]	[]	[]	[]	[]
12	Main landing gear strut - Perform inspection/check. Major Inspection if equipped with MLG strut access patch (see Figure 32-003): Only every 2000 hours (see 32-10: 2.1.2.) or after a hard landing (see 05-50: 2.2.)	32-10: 2.1.1.	[]	[X]	[]	[]	[]	[]
13	Nose gear Perform inspections/checks	32-50: 2.1.1. 32-20 2.2.1.	[]	[]	[X]	[]	[]	[]

*If/when replacing brake pads and/or discs, also perform inspection/check of wheel and brake assembly, see 32-40: 2.1.1.

Item No.	Fuselage and Empennage Group	ATA Ref	50 Hr	Annual/ 100 Hr	200 Hr	500 Hr	1000 Hr	10000 Hr
1	Exterior Placards Visual Inspection for conformity, security, and condition. Replace if necessary.	05-20 11-10	[]	[X]	[]	[]	[]	[]
2	Fuselage skin/shell - Perform inspection/check + major bonding lines tap test *Major Inspection: Only every 2000 FH (see 53-10: 2.1.)	53-10: 2.1.1. 51-10: 2.2.	[]	[X]	[]	[]	[]	[]
3	GRS ballistic parachute rescue system - Perform inspection/check	05-20	[]	[X]	[]	[]	[]	[]
4	Vertical Stabilizer and Rudder Surfaces – Visual Inspection + vertical stabilizer major bonding line tap test	05-20 51-10: 2.2.	[]	[X]	[]	[]	[]	[]
5	Rudder Control System – Perform inspections/checks.	27-20: 2.1.1. **	[]	[X]	[]	[]	[]	[]
6	Rudder Control System – Perform inspections/checks	27-20: 2.1.1. 27-20: 2.4. 27-20: 2.5.1. 27-20: 2.6.1. 27-20: 2.7.1.	[]	[]	[X]	[]	[]	[]
7	Horizontal Stabilizer and Elevator Surfaces - Visual Inspection + horizontal stabilizer major bonding line tap test	05-20 51-10: 2.2.	[]	[X]	[]	[]	[]	[]
8	Horizontal Stabilizer and Elevator Surfaces - Perform inspection/check	55-20: 2.1.3.	[]	[]	[X]	[]	[]	[]
9	Vertical/horizontal stabilizer – Perform inspections/checks	55-30: 2.1.1. 55-10: 2.1.3.	[]	[X]	[]	[]	[]	[]
10	Vertical stabilizer – Perform inspections/checks + tap test	55-30: 2.1. 51-10: 2.2.	[]	[]	[]	[X]	[]	[]
11	Elevator Control System Perform inspections/checks	27-30: 2.4.1. 27-30: 2.5.1.	[]	[X]	[]	[]	[]	[]

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Item No.	Fuselage and Empennage Group	ATA Ref	50 Hr	Annual/ 100 Hr	200 Hr	500 Hr	1000 Hr	10000 Hr
12	Elevator Control System Perform inspections/checks *Major Inspection: Only every 2000 FH (see 27-30: 2.6.2.)	27-30: 2.6.1.	[]	[]	[x]	[]	[]	[]
13	Fuselage Vent/Drain Holes Visual Inspection for obstructions or blockage.	APPENDIX 99-D	[]	[x]	[]	[]	[]	[]
14	Antennas - Visual inspection	05-20	[]	[x]	[]	[]	[]	[]
15	Baggage compartment - Visual Inspection of composite around safety harness attachment points	05-20	[]	[]	[]	[x]	[]	[]
16	Control Surface and Stabilizer Vent/Drain Holes - Visual Inspection for obstructions or blockage.	APPENDIX 99-D	[]	[]	[x]	[]	[]	[]
17	Lubrication - Time interval is 100 or 200 hours depending on the component.	12-20: 2.5.	[]	[]	[]	[]	[]	[]

**perform without removing the rudder (2.1.1.3) for the 100-hour check, just move rudder to one side and inspect/check. Perform with rudder removed every 200 hours.

Item No.	Wing Group	ATA Ref	50 Hr	Annual/ 100 Hr	200 Hr	500 Hr	1000 Hr	10000 Hr
1	Wing surface - Visual Inspection for general condition, deterioration, delamination, distortion, cracks, paint condition, and other evidence of failure. *Major Inspection: Only every 2000 FH (see 57-10: 2.1.3.).	05-20	[]	[x]	[]	[]	[]	[]
2	Wing Leading Edge Visual Inspection for foreign matter and debris + leading edge bonding line tap test	05-20 51-10: 2.2.	[]	[x]	[]	[]	[]	[]
3	Flaperon Surfaces - Visual Inspection	05-20	[]	[x]	[]	[]	[]	[]
4	Flaperon system free play- Perform inspection/check	27-50: 2.1.3. 27-50: 2.1.4.	[]	[]	[x]	[]	[]	[]
5	Flaperon surfaces- Perform inspection/check	57-50: 2.1.2.	[]	[]	[x]	[]	[]	[]
6	Pitot tube - Visual inspection	05-20	[]	[x]	[]	[]	[]	[]
7	Wing Vent/Drain Holes - Visual Inspection for obstructions or blockage.	APPENDIX 99-D	[]	[x]	[]	[]	[]	[]
8	Air brakes - (if installed) Perform inspections/checks	57-70: 2.1.	[x]	[]	[]	[]	[]	[]
9	Lubrication - Time interval is 100 or 200 hours depending on the component.	12-20: 2.5.	[]	[]	[]	[]	[]	[]
10	NAV/STROBE lights - Inspection/check	33-40: 2.1.1. 33-40: 2.2.1.	[]	[x]	[]	[]	[]	[]

05-30**AIRPLANE OPERATIONAL
AND FUNCTIONAL CHECK****05-30 AIRPLANE OPERATIONAL AND FUNCTIONAL CHECK**

The following check must be performed before and after the Scheduled Maintenance Inspection to detect any airplane abnormalities or malfunctions. A portion of the check is accomplished with the engine running and warmed up. Please refer to the aircraft POH [4] for additional details about operating procedures and equipment.

WARNING: In order to perform the following check, the engine must be operating. Do not stand or let anyone else stand close to the arc of the airplane's propeller while conducting this check.

CAUTION: During all engine operations outlined in this check, exercise caution to avoid harm or damage to personnel and equipment due to propeller blast and rotating propeller blades.

CAUTION: Excessive engine temperatures must be avoided since run-up temperatures must closely parallel in-flight temperatures.

Item No.	Operational Inspection Report	Check	Notes
1	Flight Controls Check for full range of travel and excessive friction. Visual Inspection for obstructions.		
2	Engine Controls Check full range of motion without any obstruction or excessive friction to travel.		
3	MASTER switch + AVIONICS switch When switches are toggled ON the following should occur (see aircraft specific POH for a more detailed description of the equipment installed): — EMS/HORIS turn on and run with no indication of any errors (See POH). — Other electrically powered flight instruments turn on (See POH). — Radio and transponder turn on.		
4	Engine — Start engine (see POH). — Check that starter spins propeller without slipping or dragging. — Set engine speed to 2500 RPM and wait till oil temperature reaches green arc (50°C). — Check that the oil pressure is in the green arc within 30 seconds. — Check that the fuel pressure is in the green arc. — Check voltage. — Set engine to 4000 RPM and carry out magneto check as per latest version of Rotax 912 series MM. — Throttle full forward for 5 seconds. Engine RPM should indicate between 5300 and 5600. NOTE: The RPM should not exceed 5800 at anytime during operation. — Check that brakes hold aircraft stationary at full power with no slipping. — Set engine to idle. Engine should cease when ignition key set to magneto OFF position. — Shut down (see POH).		