4.2.1 Periodic inspections

Aircraft type:		Date of inspection:	
Call-sign:		Serial no.:	
No. of flight hours	·		

	Description	Insp	Inspection		
No.		every 50 hours	every 100 hours	Ref. Chapter	Signature
1	Clean the aircraft	Х	х	3	
	Engine cowling		1		
2	Check condition of engine cowling and its attachments; repair damage as required	x	x		
	Engine				
3	Maintenance in accordance with Rotax manual	e in accordance with Rotax manual in accordance w			ax manual
	Engine compartment				
4	Visual inspection of integrity of fire protection mats: - at the fire wall - at the push-rods for the nose wheel steering Engine mount	x			
	Engine mount				
5	Check condition of engine mount, particularly the rivet connections and attachment screws; check security of screws	x	x		
6	Visual inspection of integrity of heat-resistant silicon sealings at the transitions: - engine mount - fuselage tube - engine mount - nose wheel spar - nose wheel spar - fuselage tube - fuselage tube - A column	x	x		
7	Visual inspection of engine damper blocks for porosity, excessive deformation, cracks, etc.; if necessary, replace affected blocks (the engine must not be removed)		x		
	Carburettor				
8	Visual inspection of carburettors, especially: - air filter connections - fuel line connections - equalising line connections - attachment of throttle cables - attachment of choke cables	x	x		
9	- check carburettor supports for cracks		x		
10	Check Bowden cables at their exit at the adjustment screws for wear and grease them; adjust if necessary (synchronisation)	x	x	4.3.1.1	
11	Check condition and attachment of air tubes between carburettor and induction system (pressure sensors in the air filters)	x	x	4.3.1.2	

	Description	Inspe	Inspection		
No.		every 50 hours	every 100 hours	Ref. Chapter	Signature
	Induction system				
12	Check condition and attachment of the induction system hoses (C42 B / C / CS / E only) and air filter attachment (C42 A), respectively	x	x		
13	Check condition of air filters and clean as required <i>Note:</i> The air filters in the C42 B / C / CS / E are located in the induction system hoses between the air plenum and the carburettor. The induction system hoses must be dismantled in order that the air filters may be inspected and serviced.		x		
14	Check carburettor heating air flap (C42 B / C / CS / E only) for freedom of movement	х	х		
	Fuel system				
15	Visual inspection of connections and hoses for integrity, condition (porosity), leaking and secure attachment	x	x		
16	Visual inspection of tank for leaking	х	х		
17	Check tank for inner cleanliness; clean as required		х	4.3.2.1	
18	Check tank ventilation is free of obstacles (blow through)	х	Х		
19	Check fuel filter for dirt; replace, if necessary	х	х		
20	Check electrical fuel pump for - secure fitting of the cable connections - secure fitting/leaking of line connections - every 300 hours, check flow capacity	x	x	4.3.2.2	
21	Check fuel valve for freedom of movement	х	х		
	Cooling system				
22	Visual inspection of cooler condition and check for leaks	x	х		
23	Visual inspection of condition of heat exchanger and check for leaks (C42 B / C / CS / E only)	x	x		
24	Check cooling system for leaks	Х	X		
25	Visual inspection of condition, porosity and secure attachment of hoses; if necessary, replace damaged hoses and attachments and loose clamps	x	X		
26	Check that the correct amount of coolant is in the reservoir; if necessary, fill up with coolant	x	x		
27	Check coolant for oil; if applicable, find out and eliminate the cause	х	x		
28	Coolant change in accordance with Rotax maintenance manual	in ac	cordanc	e with Rota	ax manual
	Oil system				
29	Check condition of oil cooler and for leaks (C42 A only)	x	x		
30	Visual inspection of condition of heat exchanger and check for leaks (C42B / C / CS / E only)	х	х		
31	Check oil tank for amount of oil, condition, leaks and attachment	x	x		

	Description	Inspection					
No.		every 50 hours	every 100 hours	Ref. Chapter	Signature		
32	From construction year 2005: visual inspection of condition and attachment of overflow tank (to firewall); empty if necessary	x	x				
33	Oil and oil filter change	in ac	cordanc	e with Rot	ax manual		
	Exhaust system	1					
34	Check condition of attachment springs and that none are missing	х	x				
35	Check mufflers and manifold for damage, in particular for cracks in the weld seams; if necessary, repair at a specialist workshop	x	x				
	ASE NOTE: Every 500 hours the exhaust pipes connected to the silentled and the condition of the pipe inside the silencer has to be che using a lamp.						
36	Check exhaust shroud for secure fitting; if necessary, tighten straps	x	X				
	Heating			1 1			
37	Visual inspection of heating tube in the engine compartment (red tube) and in the cockpit (silver aluminium tube under the instrument panel) for deformation, proper attachment and condition	x	x				
38	Check condition and functionality of heating valve	х	Х				
	Propeller						
39	Service according to the relevant instructions from COMCO IKARUS GmbH	in accordance with COMCO IKARUS GmbH instructions					
40	Check torque moment of propeller screws in accordance with propeller manual		Х				
	Propeller blades						
41	Check for abrasion and damage, check condition of propeller tips and leading edges; repair in accordance with COMCO IKARUS GmbH instructions	x	x				
	Spinner						
42	Visual inspection for damage	X	X				
43	Check secure fitting of all attachment screws and that none are missing	x	X				
	Hub			T T			
44	Check hub for damage, in particular for cracks and check condition and secure fitting of attachment screws (spinner must be removed)		x				
45	Check spinner plate for cracks near the adapter	х	х				
46	Check propeller clearance (ground, cowling)	х	Х				
47	Check propeller pitch control mechanism in accordance with COMCO IKARUS GmbH instructions (only if a variable pitch propeller is installed)	in accordance with COMCO IKARUS GmbH instructions					
	Nose wheel landing gear	<u> </u>					

	Description	Inspe	Inspection		
No.		every 50 hours	every 100 hours	Ref. Chapter	Signature
49	Check wheel pant and wheel pant bracket for secure fitting and damage; repair or replace as required	x	x		
50	Check attachment of nose wheel spar to fuselage tube; check screws in and under the engine mount for secure fitting		x		
51	Check nose wheel fork for deformation and other damage		х		
52	Check suspension rubber boots for damage, porosity, etc. (year of construction before 2003)	x	x		
53	Check functionality and condition of damping spring (year of construction before 2003)	х	х		
54	Check functionality and condition of rubber spring elements above and below nose wheel spar (year of construction 2003 and younger); check particularly for cracks, porosity, deformation; replace as required		x		
55	Check nose wheel fork for play and freedom of movement in direction of rotation and compression	х	х		
56	Check steering rods, joints, push-rods and links of the floor pedals of the nose wheel steering for secure fitting, damage and abrasion	x	x		
57	Clean, grease and secure rod ends of the pedal controls at the pedals and steering rods		х		
58	Check axial attachment screw of the nose wheel fork for secure fitting		x		
59	Grease both journal bearings in the nose wheel spar with a grease press via upper and lower grease nipples		х	4.3.3.1	
	Tyres				
60	Check tyre for damage, uneven wear, age and tread; replace as required	x	х		
61	Check tyre pressure; adjust appropriately	х	Х		
	Wheel rim			1 1	
62	Check for damage, deformation, cracks; replace if necessary	x	x		
63	Check condition of valve	х	х		
64	Check wheel bearings for play and freedom of movement	x	x		
	Main landing gear				
65	Check main landing gear fairing for secure fitting and damage; repair or replace as required	x	х		
66	Check wheel pants and wheel pant brackets for secure fitting and damage; repair or replace as required	x	x		
67	Check cross beam for damage and deformation (visual inspection of beam); check screw connections between fuselage fittings and cross beam for secure fitting (visual inspection under the seats)		x		
68	Check rivet connections between cross beam and joists		х		

		Insp	Inspection		
No.	Description	every 50 hours	every 100 hours	Ref. Chapter	Signature
69	Check axle tubes (swing axles) for damage and secure fitting; check connections and bearings, in particular plastic spacers between the joists on the cross beam	x	x		
70	Check condition of trailing arm for damage, secure fitting and freedom of movement of the rod ends	х	x		
71	Check condition of spar struts for damage and secure fitting (inspection through baggage bin)	х	х		
72	Check shock absorber rubber boots for damage and porosity; replace as required	х	х		
73	Check functionality, condition and attachment of shock absorbers; pressure check		x	4.3.3.2	
	Tyres			, ,	
74	Check tyres for damage, uneven wear, age and tread; replace as required	x	x		
75	Check tyre pressure, adjust appropriately	х	х		
	Wheel rims			'	
76	Check for damage, deformation and cracks; replace if necessary	х	х		
77	Check condition of valves	х	х		
78	Check wheel bearings for play and freedom of movement	x	X		
	Brakes				
79	Check braking function	х	x		
80	Check attachments of lines to main landing gear	x	x		
81	Check brake system in its entirety for damage and leaks; repair leaks, fill up with brake fluid and ventilate system as required		x	4.3.4.1	
82	Check proper attachment of lines to the brake lever and the brakes	х	X		
83	Visual inspection of brake pads, check for uneven, asymmetrical wear or reaching wear limit; replace pads if necessary	x	x	4.3.4.2	
84	Check brake discs for wear and true running; replace as required		x		
	Wing				
85	Check wing tips/winglets for damage; repair or replace as required	х	x		
86	Visual inspection of covering for any kind of damage and integrity of seams; repair if necessary	x	x		
87	Check wing attachments for play. Move the wing tips up and down and back and forward; if necessary, tighten the M8 attachment screws on the U fittings of the wing attachment (25 Nm)	x	x		
88	Check wing struts and auxiliary struts for damage and secure attachment	x	x		
89	Check wing battens; repair or replace any damage battens	x	х	4.3.5.1	

	Description	Inspection			
No.		every 50 hours	every 100 hours	Ref. Chapter	Signature
90	Check the diagonal cables for correct tension Note: This inspection can be done through the open zips of the wing covering and from the cockpit through the wing-fuselage junction	x	x		
	Ailerons				
91	Visual inspection of the condition of the ailerons	x	x		
92	Check ailerons for freedom of movement	х	x		
93	Check condition, secure fitting, play and security of the aileron hinges (fork joints), in particular wear of the eye-bolts and bolts	х	x		
94	Clean, grease and secure fork joints		x		
95	Check aileron control horn for damage, secure fitting and security	x	x		
96	Check attachment of aileron rod: - control stick - torsion tube - axial screws on the front and rear bearings of the sticktorsion tube for secure fitting of the screws and their safety pins - pulleys: condition, attachment and bearings - aileron quadrant at canopy roof frame: attachment and bearings - pulleys in the wings: attachment and bearings		x		
97	Check condition of aileron rod ends: - torsion tube front and rear - aileron quadrant - aileron control rod, long – direction changer - aileron control rod, short - control horn – direction changer	x	x		
98	Clean, grease and secure rod ends and check for play		х		
99	Check security of aileron push-rods short/long	х	х	4.3.5.2	
100	Check quick-release fittings of the aileron push-rods at the aileron quadrant for freedom of movement and secure closure	x	x		
101	Check aileron cables, thimbles and swaged grommets for damage and secure attachment		x		
102	Check cable tension of the aileron quadrant; if necessary, adjust using eccentric wheel	х	x	4.3.6.1	
103	Check aileron quadrant and lever arms in the wing for freedom of movement and security; if necessary, wash out the journal bearings and grease		x		
	Wing flaps		-		
104	Visual inspection of the condition of wing flaps	x	x		
105	Check condition, secure fitting, play and security of wing flap hinges (fork joints), in particular wear of the eye-bolts and bolts	х	х		
106	Clean, grease and secure fork joints		х		

Check functionality, freedom of movement and play in the controls			Inspe	ection		
Check fitting of sliding sleeves on the flap spar; sliding sleeves and spars must fit exactly into each other 109	No.	Description		100	Ref. Chapter	Signature
spars must fit exactly into each other 100 Loosen the sliding sleeves and check for wear; clean and grease as required 110 Check the spring-loaded locks at the sliding sleeves for proper form fit (they must positively lock at the front and rear end of the tubes) 111 Check the spring-loaded locks freedom of movement 112 Check the wing flap steering rod for damage and secure fitting 113 Check condition of swivel heads of connections: steering lever - wing flap push-rods - actuator lever 114 Clean, grease and secure swivel heads and check for play 115 Check secure fitting and functionality of wing flap link and actuator lever 116 Crease the flap tracks x x 117 Check secure fitting and functionality of wing flap link and actuator lever shows significant play in one of the detents the flap track must be replaced 116 Grease the flap tracks x 117 Free the detents in the flap track tend to enlarge with time; if the flap lever shows significant play in one of the detents the flap track must be replaced 116 Grease the flap tracks x 117 Free tonnections x x 118 Check metal frame (fuselage tube, A/B/C columns, canopy roof frame, struts, fittings, etc.): - screw connections x x 117 - rive connections x x 118 ATTENTION: Reference to SB-42-022-2019: In case of damage history and/or more than 2000 operating hour (see SB-42-022-2019), the inner surface of the A-strut at the junction to the upper main tube mount shall be inspected with an endoscope every 300 hours. Skin Check condition of all glass-fibre and carbon-fibre shells, fairings and cowlings for damage, cracks, deformation, etc.; repair or replace any damaged elements 119 Check functionality of fuselage shell attachments and that none are missing 120 Check proper attachment of mounted parts such as antennas, etc. x x 121 Check proper functioning of the Camiloc locks in the baggage bin x x	107	Check functionality, freedom of movement and play in the controls	x	x		
Check the spring-loaded locks at the sliding sleeves for proper form fit (they must positively lock at the front and rear end of the tubes) 111 Check spring-loaded locks freedom of movement 112 Check the wing flap steering rod for damage and secure fitting 113 Check condition of swivel heads of connections: steering lever - wing flap push-rods - actuator lever 114 Clean, grease and secure swivel heads and check for play 115 Check secure fitting and functionality of wing flap link and actuator lever 116 Crease the flap tracks tend to enlarge with time; if the flap lever shows significant play in one of the detents the flap track must be replaced 116 Grease the flap tracks 117 Fuselage 118 Check metal frame (fuselage tube, A/B/C columns, canopy roof frame, struts, fittings, etc.): 119 - screw connections - rivet connections - welded connections - ueded connections - ueded connections - ueded connections - ueded connections - deformations ATTENTION: Reference to SB-42-022-2019: In case of damage history and/or more than 2000 operating hour (see SB-42-022-2019), the inner surface of the A-strut at the junction to the upper main tube mount shall be inspected with an endoscope every 300 hours. Skin 118 Check condition of all glass-fibre and carbon-fibre shells, fairings and cowlings for damage, cracks, deformation, etc.; repair or replace any damaged elements 119 Check functionality of fuselage shell attachments and that none are missing 120 Check proper attachment of mounted parts such as antennas, etc. 121 Check rubber sealing around the opening of the ballistic recovery system 122 Check proper functioning of the Camloc locks in the baggage bin 130 The condition of the camloc locks in the baggage bin 142 Check proper functioning of the Camloc locks in the baggage bin	108		x	x	4.3.6.2	
(they must positively lock at the front and rear end of the tubes) 111 Check spring-loaded locks freedom of movement 112 Check the wing flap steering rod for damage and secure fitting 113 Check condition of swivel heads of connections: steering lever - wing 114 Clean, grease and secure swivel heads and check for play 114 Clean, grease and secure swivel heads and check for play 115 Check secure fitting and functionality of wing flap link and actuator lever 116 Note: The detents in the flap track tend to enlarge with time; if the flap lever shows significant play in one of the detents the flap track must be replaced 116 Grease the flap tracks 117 Fixelage 118 Check metal frame (fuselage tube, A/B/C columns, canopy roof frame, struts, fittings, etc.): 119 - screw connections 1 - joints 1 - deformations 110 Attributions 111 Attribution to the upper main tube mount shall be inspected with an endoscope every 300 hours. 118 Check condition of all glass-fibre and carbon-fibre shells, fairings and cowlings for damage, cracks, deformation, etc.; repair or replace any damaged elements 119 Check functionality of fuselage shell attachments and that none are missing 120 Check proper attachment of mounted parts such as antennas, etc. 121 Check rubber sealing around the opening of the ballistic recovery system 122 Check proper functioning of the Camloc locks in the baggage bin 122 Check proper functioning of the Camloc locks in the baggage bin	109			x		
Check the wing flap steering rod for damage and secure fitting Check condition of swivel heads of connections: steering lever - wing flap push-rods - actuator lever Check secure fitting and functionality of wing flap link and actuator lever Check secure fitting and functionality of wing flap link and actuator lever Note: The detents in the flap track tend to enlarge with time; if the flap lever shows significant play in one of the detents the flap track must be replaced Check metal frame (fuselage tube, A/B/C columns, canopy roof frame, struts, fittings, etc.): - screw connections - rivet connections - joints - deformations ATTENTION: Reference to SB-42-022-2019: In case of damage history and/or more than 2000 operating hour (see SB-42-022-2019), the inner surface of the A-strut at the junction to the upper main tube mount shall be inspected with an endoscope every 300 hours. Skin Check condition of all glass-fibre and carbon-fibre shells, fairings and cowlings for damage, cracks, deformation, etc.; repair or replace any damaged elements Check functionality of fuselage shell attachments and that none are missing Check proper attachment of mounted parts such as antennas, etc. X X Check proper functioning of the Camloc locks in the baggage bin X X X	110		x	x		
Check condition of swivel heads of connections: steering lever - wing flap push-rods - actuator lever 114 Clean, grease and secure swivel heads and check for play Check secure fitting and functionality of wing flap link and actuator lever Note: The detents in the flap track tend to enlarge with time; if the flap lever shows significant play in one of the detents the flap track must be replaced 116 Grease the flap tracks Fuselage Frame Check metal frame (fuselage tube, A/B/C columns, canopy roof frame, struts, fittings, etc.): - screw connections - velded connections - with connections - with connections - welded with an endoscope every 300 hours. ATTENTION: Reference to SB-42-022-2019: In case of damage history and/or more than 2000 operating hour (see SB-42-022-2019), the inner surface of the A-strut at the junction to the upper main tube mount shall be inspected with an endoscope every 300 hours. Skin Check condition of all glass-fibre and carbon-fibre shells, fairings and cowlings for damage, cracks, deformation, etc.; repair or replace any damaged elements 119 Check functionality of fuselage shell attachments and that none are missing 120 Check proper attachment of mounted parts such as antennas, etc. x x 121 Check rubber sealing around the opening of the ballistic recovery system 122 Check proper functioning of the Camloc locks in the baggage bin x x x	111	Check spring-loaded locks freedom of movement		х		
flap push-rods - actuator lever 114 Clean, grease and secure swivel heads and check for play Check secure fitting and functionality of wing flap link and actuator lever Note: The detents in the flap track tend to enlarge with time; if the flap lever shows significant play in one of the detents the flap track must be replaced 116 Grease the flap tracks Fuselage Frame Check metal frame (fuselage tube, A/B/C columns, canopy roof frame, struts, fittings, etc.): - screw connections - iviet connections - joints - deformations ATTENTION: Reference to SB-42-022-2019: In case of damage history and/or more than 2000 operating hour (see SB-42-022-2019), the inner surface of the A-strut at the junction to the upper main tube mount shall be inspected with an endoscope every 300 hours. Skin Check condition of all glass-fibre and carbon-fibre shells, fairings and cowlings for damage, cracks, deformation, etc.; repair or replace any damaged elements 118 Check functionality of fuselage shell attachments and that none are missing Check proper attachment of mounted parts such as antennas, etc. X X Check rubber sealing around the opening of the ballistic recovery system Check proper functioning of the Camloc locks in the baggage bin X X	112	Check the wing flap steering rod for damage and secure fitting	х	х		
Check secure fitting and functionality of wing flap link and actuator lever 115 Note: The detents in the flap track tend to enlarge with time; if the flap lever shows significant play in one of the detents the flap track must be replaced 116 Grease the flap tracks Fuselage Frame Check metal frame (fuselage tube, A/B/C columns, canopy roof frame, struts, fittings, etc.): - screw connections - rivet connections - velded connections - joints - deformations ATTENTION: Reference to SB-42-022-2019: In case of damage history and/or more than 2000 operating hour (see SB-42-022-2019), the inner surface of the A-strut at the junction to the upper main tube mount shall be inspected with an endoscope every 300 hours. Skin Check condition of all glass-fibre and carbon-fibre shells, fairings and cowlings for damage, cracks, deformation, etc.; repair or replace any damaged elements 118 Check functionality of fuselage shell attachments and that none are missing 120 Check proper attachment of mounted parts such as antennas, etc. 121 Check rubber sealing around the opening of the ballistic recovery system 122 Check proper functioning of the Camloc locks in the baggage bin 123 Check proper functioning of the Camloc locks in the baggage bin 124 Check proper functioning of the Camloc locks in the baggage bin	113		х	х		
lever Note: The detents in the flap track tend to enlarge with time; if the flap lever shows significant play in one of the detents the flap track must be replaced 116 Grease the flap tracks Fuselage Frame Check metal frame (fuselage tube, A/B/C columns, canopy roof frame, struts, fittings, etc.): - screw connections - rivet connections - velded connections - joints - deformations ATTENTION: Reference to SB-42-022-2019: In case of damage history and/or more than 2000 operating hour (see SB-42-022-2019), the inner surface of the A-strut at the junction to the upper main tube mount shall be inspected with an endoscope every 300 hours. Skin Check condition of all glass-fibre and carbon-fibre shells, fairings and cowlings for damage, cracks, deformation, etc.; repair or replace any damaged elements 119 Check functionality of fuselage shell attachments and that none are missing 120 Check proper attachment of mounted parts such as antennas, etc. 121 Check rubber sealing around the opening of the ballistic recovery system 122 Check proper functioning of the Camloc locks in the baggage bin	114	Clean, grease and secure swivel heads and check for play		х		
Fuselage Frame Check metal frame (fuselage tube, A/B/C columns, canopy roof frame, struts, fittings, etc.): - screw connections - rivet connections - velded connections - joints - deformations ATTENTION: Reference to SB-42-022-2019: In case of damage history and/or more than 2000 operating hour (see SB-42-022-2019), the inner surface of the A-strut at the junction to the upper main tube mount shall be inspected with an endoscope every 300 hours. Skin Check condition of all glass-fibre and carbon-fibre shells, fairings and cowlings for damage, cracks, deformation, etc.; repair or replace any damaged elements Check functionality of fuselage shell attachments and that none are missing Check rubber sealing around the opening of the ballistic recovery system Check proper functioning of the Camloc locks in the baggage bin X X Check proper functioning of the Camloc locks in the baggage bin	115	Note: The detents in the flap track tend to enlarge with time; if the flap lever shows significant play in one of the detents the flap track must	x	x		
Frame Check metal frame (fuselage tube, A/B/C columns, canopy roof frame, struts, fittings, etc.): - screw connections - rivet connections - welded connections - joints - deformations ATTENTION: Reference to SB-42-022-2019: In case of damage history and/or more than 2000 operating hour (see SB-42-022-2019), the inner surface of the A-strut at the junction to the upper main tube mount shall be inspected with an endoscope every 300 hours. Skin Check condition of all glass-fibre and carbon-fibre shells, fairings and cowlings for damage, cracks, deformation, etc.; repair or replace any damaged elements Check functionality of fuselage shell attachments and that none are missing Check rubber sealing around the opening of the ballistic recovery system Check proper functioning of the Camloc locks in the baggage bin Check proper functioning of the Camloc locks in the baggage bin	116	Grease the flap tracks		Х		
Check metal frame (fuselage tube, A/B/C columns, canopy roof frame, struts, fittings, etc.): - screw connections - rivet connections - welded connections - joints - deformations ATTENTION: Reference to SB-42-022-2019: In case of damage history and/or more than 2000 operating hour (see SB-42-022-2019), the inner surface of the A-strut at the junction to the upper main tube mount shall be inspected with an endoscope every 300 hours. Skin Check condition of all glass-fibre and carbon-fibre shells, fairings and cowlings for damage, cracks, deformation, etc.; repair or replace any damaged elements Check functionality of fuselage shell attachments and that none are missing Check proper attachment of mounted parts such as antennas, etc. Check rubber sealing around the opening of the ballistic recovery system Check proper functioning of the Camloc locks in the baggage bin X X Check proper functioning of the Camloc locks in the baggage bin		Fuselage				
frame, struts, fittings, etc.): - screw connections - rivet connections - welded connections - joints - deformations ATTENTION: Reference to SB-42-022-2019: In case of damage history and/or more than 2000 operating hour (see SB-42-022-2019), the inner surface of the A-strut at the junction to the upper main tube mount shall be inspected with an endoscope every 300 hours. Skin Check condition of all glass-fibre and carbon-fibre shells, fairings and cowlings for damage, cracks, deformation, etc.; repair or replace any damaged elements Check functionality of fuselage shell attachments and that none are missing Check proper attachment of mounted parts such as antennas, etc. Check rubber sealing around the opening of the ballistic recovery system Check proper functioning of the Camloc locks in the baggage bin Check proper functioning of the Camloc locks in the baggage bin		Frame			,	
(see SB-42-022-2019), the inner surface of the A-strut at the junction to the upper main tube mount shall be inspected with an endoscope every 300 hours. Skin	117	frame, struts, fittings, etc.): - screw connections - rivet connections - welded connections - joints	x	x		
Check condition of all glass-fibre and carbon-fibre shells, fairings and cowlings for damage, cracks, deformation, etc.; repair or replace any damaged elements Check functionality of fuselage shell attachments and that none are missing Check proper attachment of mounted parts such as antennas, etc. Check rubber sealing around the opening of the ballistic recovery system Check proper functioning of the Camloc locks in the baggage bin	(see SE	3-42-022-2019), the inner surface of the A-strut at the junction to the				
118 cowlings for damage, cracks, deformation, etc.; repair or replace any damaged elements 119 Check functionality of fuselage shell attachments and that none are missing 120 Check proper attachment of mounted parts such as antennas, etc. 121 Check rubber sealing around the opening of the ballistic recovery system 122 Check proper functioning of the Camloc locks in the baggage bin		Skin				
missing 120 Check proper attachment of mounted parts such as antennas, etc. 121 Check rubber sealing around the opening of the ballistic recovery system 122 Check proper functioning of the Camloc locks in the baggage bin	118	cowlings for damage, cracks, deformation, etc.; repair or replace any	x	x		
121 Check rubber sealing around the opening of the ballistic recovery system x x Check proper functioning of the Camloc locks in the baggage bin x x	119		x	x		
system Check proper functioning of the Camloc locks in the baggage bin	120	Check proper attachment of mounted parts such as antennas, etc.	х	x		
	121		х	х		
	122	Check proper functioning of the Camloc locks in the baggage bin cover	х	х		

			Inspection						
No.	Description	every 50 hours	every 100 hours	Ref. Chapter	Signature				
	Towing mechanism (if installed)								
123	Maintenance in accordance with the appropriate documents (tow hook E85)	with C	ordance COMCO S GmbH uctions	operating manual					
124	Check Bowden cable for freedom of movement and damage near the release lever and near tow hook; this check should be carried out before every flight	x	x						
125	Check release force at the release lever when the tow hook is unloaded (< 13 daN); this check should also be carried out every 200 tows		x						
126	Clean and grease Bowden cable at the adjustment screws near the release lever and the tow hook; this check should also be carried out every 200 tows		x						
	Doors and windscreen								
127	Check the front door attachment bolts for cracks near the attachment screws	х	х						
128	Check seals for damage and porosity	x	x						
129	Check glass for cracks, scratches; repair or replace damage elements as required	x	x						
130	Check condition and functionality of cabin locks	х	х						
131	Check condition and functionality of ventilation window	x	x						
	Empennage								
	Horizontal tail		1	1 1					
132	Check condition of horizontal tail struts and for secure fitting	Х	Х						
133	Visual inspection of the condition of the horizontal tail fin and of the elevator	x	x						
134	Check horizontal tail fin for secure fitting	X	Х						
135	Visual inspection of safety screws in the horizontal tail fin attachment	x	x						
136	Check condition, secure fitting, play and security of elevator hinges (fork joints), in particular wear of the eye-bolts and bolts	x	x						
137	Clean, grease and secure fork joints		х						
138	Check elevator control horn for damage, in particular for cracks in the welded connection, and for secure fitting	x	x						
139	Check freedom of movement of the elevator	x	x						
140	Check condition and freedom of movement of the elevator push-rod rod ends; with the elevator in full deflection, check counter nuts for secure fitting	x	x						
141	Check counter nuts for proper torque and that they are properly installed	x	x						

		Inspection			
No.	Description	every 50 hours	every 100 hours	Ref. Chapter	Signature
142	Clean, grease and secure rod ends and check for play; tighten and secure the counter nuts with Loctite; secure rod end with counter nut		х		
143	Check condition, security and attachment of elevator direction changer (on top of fuselage tube); in particular, check screws in the bearing block, fittings and rivets; observe service bulletin	x	x	4.3.6.3	
144	Check elevator direction changer for security, wear and freedom of movement; wash out and grease journal bearings		х		
145	Check attachment of push-rod to control stick	х	х		
	Trim tab			1	
146	Check trim tab functionality and lever arm (cf. setting data)	x	x		
147	Visual inspection of condition and attachment of tab, control horn and control rods Note: The bearing "rod-control horn" used in the design prior to 2004 can wear out. Retro-fit new construction as required	x	x		
	Electrical trim tab				
148	Check functionality and the connections for secure fitting (insofar as they are accessible, cf. circuit diagram)	x	x		
	Mechanical trim tab	1	ı		
149	Check function, condition and attachment of the Bowden cable; if stiff, oil using an injection syringe or replace	x	x		
150	Check counter nuts of the Bowden cable adjusting screws	х	х		
	Vertical tail				
151	Visual inspection of the condition of vertical tail fin and rudder	x	x		
152	Check vertical tail fin for secure fitting	x	x		
153	Check guide bushing of forward and aft vertical tail attachment in fuselage tube for play; replace, if necessary		x		
154	Check condition of rudder hinges (fork joints)	x	x		
155	Clean, grease and secure fork joints and check for play		х		
156	Check freedom of movement of rudders	х	х		
157	Check cables and Bowden cables for secure attachment, correct routing, damage, wear and tension; adjust and grease as required	x	x		
	Check counter nuts of the Bowden cable adjusting screws				

No.	Description	Inspection						
		every 50 hours	every 100 hours	Ref. Chapter	Signature			
	Interior/Cockpit							
	Battery	1		1 1				
159	Visual inspection of wires, connections and wire routing for integrity and security insofar as accessible	x	x					
160	Visual inspection of attachment	х	х					
161	Check that battery is charged, recharge if necessary	х	х					
	Instrument panel							
162	Check condition and attachment of instrument panel (attachment clips)	х	x					
163	Check attachment of each individual instrument	x	x					
164	Check functionality of control elements: - choke - cabin heating - carburettor heating	x	x					
	Pitot-static pressure system							
165	Visual inspection of condition and attachment of pitot tube on the left wing	x	x					
166	Check system for leaks	x	x	4.3.8				
	Flight controls							
167	Check control stick attachment	x	x					
168	Check control stick for freedom of movement	х	х					
169	Check throttle for freedom of movement and sufficient friction	х	х	4.3.6.4				
170	Check Bowden cables for freedom of movement; grease if necessary	x	x					
	Pedal assembly							
171	Check condition and attachment of pedals (in particular, check for deformation and the condition of the welded connections)	x	x					
172	Check attachment and security of push-rods and control cables							
173	Check pedals for freedom of movement							
	Seats							
174	Check seats for damage	x	x					
175	Check condition and attachment of safety belts, check functionality of belt locks	x	x					
	Other	1						
176	Check attachment of the side panelling of the centre console (thread-forming self-tapping screws, M3 screws and attachment clips)	x	x					
177	Check that placards are legible and none are missing	х	х					
	Engine test run in accordance with Rotax operating handbook			· '				
	Test flight							