



## Annual Check (includes 50 & 150 check items): Task Nos. 1 – 115

Cornwall Aviation Services Ltd

UNICORN UNF 200

CAP 766 Task No.	Task Description	Task Nature	Task Interval
<b>Ground Run</b>			
1	Powerplant, liquid, air & gas systems for leaks during the following ground run.	INSP	All Checks
2	Instruments, systems & services. Radio for electromagnetic interference.	OP/C	All Checks
3	Following ground run, ensure that all cowlings, access panels & doors are secure.	CHECK	All Checks
<b>Certification</b>			
4	Workpack and logbook entries have been completed and certified. Ensure items due in accordance with CAP 543 or alternative document or system acceptable to the CAA have been accomplished and certified.	CHECK	All Checks
<b>Type Certificate &amp; Schedule Review</b>			
5	Aeroplane complies with the type certificate data sheet.	CHECK	Annual
6	Mandatory placards are installed and are legible.	CHECK	Annual
<b>Structural/Zonal</b>			
7	External structure of fuselage, mainplane, empennage, cowlings, nacelles, control surfaces, flaps and other high lift devices.	INSP	50 FH 6 Months
8	Surface de-icer systems	INSP	50 FH 6 Months
9	Normal & emergency doors and windows, door hinges, door hinge attachment points, required placards and operating instructions.	INSP	50 FH 6 Months
10	Doors, hatches & window latching and locking	OP/C	50 FH 6 Months
11	Agricultural installations: Hopper, hopper lid, tank, pump, fan, boom, pipe runs, blower & spreader.	INSP	50 FH 6 Months
12	Agricultural installations: Emergency dump doors, fan brake and pump controls.	OP/C	50 FH 6 Months
13	Marine aeroplane: Hull, floats, spreaders, struts, bracing wires, water rudders, alighting gear and bilge compartments.	INSP	50 FH 6 Months
14	Marine aeroplane: Water rudder system.	OP/C	50 FH 6 Months
<b>Landing Gear</b>			
15	Landing gear assemblies, shock absorbers/strut units for leaks & correct extension, brake system, brake linings, drum/discs, wheels and tyres.	INSP	50 FH 6 Months
16	Tyre pressures, hydraulic brake system fluid levels.	SERVICE	50 FH 6 Months
<b>Flying Controls</b>			
17	Primary/Secondary flight controls and trim systems for full and free movement in the correct sense. Position indicators agree with surface movement.	OP/C	50 FH 6 Months



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<b>Liquid Air and Gas Systems</b>			
18	Hydraulic, pneumatic, vacuum & other fluid systems.	INSP	50 FH 6 Months
19	Fluid levels in reservoirs & accumulator pressures.	SERVICE	50 FH 6 Months
20	Pitot/Static system vents, pitot head and drains clear. Pitot head correctly aligned.	INSP	50 FH 6 Months
<b>Equipment and Environmental</b>			
21	Correct stowage of equipment, validity of date on emergency equipment.	CHECK	50 FH 6 Months
22	Seats, belts/harness attachments, locking and releasing.	INSP	50 FH 6 Months
23	Fire extinguisher for leakage or discharge.	CHECK	50 FH 6 Months
<b>Lubrication</b>			
24	Lubricate aeroplane in accordance with type design organisation recommendations.	CHECK LUBE	50 FH 6 Months
<b>Powerplant Installation</b>			
25	Engine and propeller controls for full and free movement. Throttle, mixture, carburettor heat, cowl flaps and propeller pitch.	OP/C	50 FH 6 Months
26	Powerplant installation.	INSP	50 FH 6 Months
<b>Air Induction</b>			
27	Air filter, intake and induction system and turbocharger impeller.	INSP	50 FH 6 Months
<b>Exhaust</b>			
28	Exhaust manifold and muffler.	INSP	50 FH 6 Months
<b>Engine Lubrication</b>			
29	Magnetic plug	CHECK	50 FH 6 Months
30	Engine oil change. Oil filter. Screen. <b>Note:</b> In accordance with type design organisation recommendations. <b>Next Due:</b>	SERVICE	50 FH or see Note
<b>Fuel System</b>			
31	Filter for cleanliness and tank vents unobstructed. Drain samples from all drain points and check for presence of water, foreign matter & correct colour.	CHECK	50 FH 6 Months
<b>Propeller</b>			
32	Blades, spinner and backplate.	INSP	50 FH 6 Months
33	Accumulator dome pressure.	CHECK	50 FH 6 Months
<b>Electrical System</b>			
34	Battery, stowage/compartment, vents & drains. Electrolyte level.	INSP & SERVICE	50 FH 6 Months
35	Alternator/generator drive belt tension and condition.	INSP	50 FH 6 Months



CAP 766 Task No.	Task Description	Task Nature	Task Interval
<b>Structural/Zonal</b>			
36	Internal structure of fuselage, floors, bulkheads, mainplane, nacelles, empennage. Control surfaces, flaps and other high lift devices, structural attachment joint assemblies, struts, bracing wires and their attachments.	INSP	150 FH
37	Wooden/composite construction: Vent holes, glued joints, bonded assemblies, protective treatments & finishes. <b>Note:</b> The need for removal of fabric for detailed inspection of attachments must be assessed when accomplishing this task at annual check.	INSP	150 FH
38	Internal corrosion protective treatment, drain holes and paths.	INSP	150 FH
39	Static discharge wicks and attachment bases.	INSP	150 FH
<b>Landing Gear</b>			
40	Structural members, attachment fittings, pivot points, shock absorbing devices, bungee rubbers, torque links, shimmy dampers, main wheels, nose/tail wheels, bearings, skids, hoses and lines, hydraulic and electrical actuators, jacks, struts and wheel fairings. <b>Note:</b> Carry out with weight off landing gear.	INSP	150 FH
41	Main and parking brake system, anti skid devices.	OP/C	150 FH
42	Normal/emergency retraction and extension, locking devices, doors and operating linkages, indicators and warning devices.	OP/C	150 FH
43	Hydraulic/pneumatic operating systems.	CHECK	150 FH
<b>Flying Controls</b>			
44	Hinges, brackets, push-pull rods, bellcranks, control horns, balance weights, cables, pulleys, chains, tubes, guides, fairleads, rollers, tracks, rails, screw jacks/rams, auxiliary gearboxes and other power operated systems. <b>Note:</b> The need for removal of flying control cables and control system components for detailed inspection must be assessed when accomplishing this task at the annual check.	INSP	150 FH
45	Turnbuckles, locking devices in safety.	CHECK	150 FH
46	Flap asymmetric protection mechanisms.	INSP	150 FH
<b>Liquid, Air and Gas Systems</b>			
47	Tanks, powerpacks, valves, pipelines, hoses, actuators, filter and venturis.	INSP	150 FH
<b>Equipment and Environmental</b>			
48	Cabin air system, heater and blower	INSP & OP/C	150 FH
49	Air conditioner, oil level	OP/C & SERVICE	150 FH
<b>Powerplant Installation</b>			
50	Crankcase, accessory housing, cylinder assemblies, accessory drive belts, accessories, engine shock mounts, mount frame, bulkheads, firewalls and sealing, cooling baffles, cowlings, breathers and vents and items in engine bay for mutual interference.	INSP	150 FH
51	Valve operating mechanism. <b>Note:</b> In accordance with type design organisation recommendations, Next Due:	CHECK	150 FH
52	Cylinder compression and leakage. Record results in compression charts on next page.	CHECK	150 FH



Method:		
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**Air Induction**

53	Carburettor heat, alternative air bypass doors and control system/	INSP & OP/C	150 FH
54	Flame traps, drains	INSP	150 FH

**Ignition**

55	Magnetos, harnesses, leads, switches, starting vibrators, contact breakers, cooling system and ventilators.	INSP	150 FH
56	Magneto internal timing and timing to engine.	CHECK	150 FH
57	Magneto cam. <b>Note:</b> In accordance with type design organisation recommendations. Next Due:	LUB	150 FH or see Note
58	Spark plugs. <b>Note:</b> In accordance with type design organisation recommendations. Next Due:	CHECK	150 FH or see Note

**Exhaust**

59	Cabin heat exchanger.	INSP	150 FH
60	Turbocharger, control system, pipelines and vents.	INSP	150 FH

**Engine Lubrication**

61	Tanks, sump, coolers hoses, pipelines and vents.	INSP	150 FH
62	Engine controls in accordance with type design organisation recommendations.	LUB	150 FH

**Fuel System**

63	Tanks, filler caps, selector valves, pumps, pipelines, hoses, carburettor, injector systems, throttle, mixture control, fuel selector control and filler point placard.	INSP	150 FH
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**Propeller**

64	Hub, constant speed unit, governor, accumulator, de-icing boots, slip ring and brushes, fluid system and control system.	INSP	150 FH
65	Pitch change mechanism for backlash	CHECK	150 FH
66	Lubricate propeller in accordance with type design organisation recommendations.	LUB	150 FH

**Electrical System**

67	Components, wiring, terminals and connectors.	INSP	150 FH
68	Warning circuits.	OP/C	150 FH
69	Correct type and rating of fuses and circuit breakers, Correct spare fuse carried.	CHECK	150 FH
70	Lamps and lighting. Correct spare lamps carried.	CHECK	150 FH
71	Brushes in starter, alternator and generator. <b>Note:</b> In accordance with type design organisation recommendations. Next Due:	CHECK	150 FH

**Structural/Zonal**

72	Emergency exit by internal release methods.	OP/C	Annual
73	Lightning strike bonding.	CHECK	Annual
74	Internal condition of struts, control tubes and similar hollow members <b>Note:</b> In accordance with type design organisation recommendations Next Due:	INSP	See Note

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#### Flying Controls

75	Electric flap actuation system, limit switches, pitch trim motors.	INSP & OP/C	Annual
76	Control cables for correct tension. Control neutrals and travels. Record results below.	CHECK	Annual

#### Liquid, Air and Gas Systems

77	Pitot/Static system sense and leak	F/C	Annual
78	Hydrostatic test of pressure vessels <b>Note:</b> In accordance with type design organisation recommendations. Next Due:	INSP & CHECK	60 months or see Note
79	Flexible fuel and oil hoses pressure test. <b>Note:</b> in accordance with type design organisation recommendations. Next Due:	CHECK	72 months from new. Then 36 months or see Note
80	Internal examination and pressure testing of fluid tanks and reservoirs. <b>Note:</b> In accordance with type design organisation recommendations. Next Due	CHECK	See Note

#### Equipment and Environmental

81	Fire extinguisher contents by pressure/weight	CHECK	Annual
82	Combustion heater <b>Note:</b> In accordance with GR 11. Next Due:	CHECK	law GR11
83	Ground function pressurisation check. Next Due:	F/C	36 months

#### Exhaust

84	Cabin heat exchanger pressure test. <b>Note:</b> In accordance with type design organisation recommendations. Next Due:	CHECK	Annual or see Note
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#### Electrical Systems

85	Over/under volt systems, warnings. Load sharing.	OP/C	Annual
86	All ground operable electrical circuits. Exercise manually operated circuit breakers.	OP/C	Annual
87	Nickel-cadmium battery capacity test. <b>Note:</b> In accordance with equipment manufactures recommendations where capacity checks are recommended by the manufacture Next Due:	F/C	12 months or see Note
88	Lead –acid battery capacity test. <b>Note:</b> In accordance with equipment manufactures recommendations where capacity checks are recommended by the manufacture Next Due:	F/C	12 months or see Note



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**Instrument Systems**

89	Air Speed Indicator calibration (in situ permissible) <b>Note:</b> Measured parameters must be recorded.	F/C	Annual
90	Altimeter calibration (in situ permissible) <b>Note:</b> Measured parameters must be recorded.	F/C	Annual
91	Instruments and indicators for satisfactory condition, mounting, marking and operation. <b>Note:</b> This task is applicable to all instruments and indicators that could affect the airworthiness or operating safety.	F/C	Annual
92	Reading consistent with ambient conditions. Stall warning device operation.	CHECK	Annual
93	Compass deviation or steer by cards-valid until next check.	CHECK	Annual
94	Instruments, displays, controllers, panels, mounts, pipes, hoses, electrical wiring, gyro filters, flux detectors and instrument transmitters	INSP	Annual
95	Compass Swing. Next Due:	F/C	36 months

**Avionics Radio**

96	Aerials, insulators, controllers, instruments, displays, microphones, headsets, jackplugs and sockets.	INSP	Annual
97	Cables and terminals, cooling systems and moisture trap areas.	INSP	Annual
98	ELT, including battery. <b>Note:</b> In accordance with equipment manufactures recommendations. Next Due:	CHECK	See Note
99	VHF Communication	OP/C	Annual
100	HF Communication	OP/C	Annual
101	VOR using a field test set, including flag warning, omni-radial resolving, radio-magnetic indicator accuracy at 90° intervals, sense and course width	F/C	Annual
102	ILS localiser and Glide Slope using a field test set, including flag warnings of single tone failure, centreline accuracy, sense course width and audio	F/C	Annual
103	Marker using a field test set, including 3-tone operational check and high/low sensitivity	F/C	Annual
104	ADF ground function using station of known bearing to establish accuracy and audio	F/C	Annual
105	DME using a field test set, including frequency tolerance, range accuracy and audio	F/C	Annual
106	ATC Transponder using a field test set, including frequency tolerance, side lobe suppression, mode C & S. <b>Note:</b> Mode S checks should confirm the aircraft assigned Mode S code is correct and declared parameters are also correct	F/C	Annual
107	Airborne search and weather radar in all modes	OP/C	Annual
108	Area and satellite navigation (GPS)	OP/C	Annual
109	Audio control panel, including emergency operation	OP/C	Annual
110	VHF Communication using a field test set, including frequency tolerance of transmitted frequency. <b>Note:</b> In accordance with equipment	F/C	36 months



	manufactures recommendations, only where frequency tolerance checks are recommended by the manufacturer. Next Due:		
111	HF Communication using a field test set, including frequency tolerance of transmitted frequency. <b>Note:</b> In accordance with equipment manufactures recommendations, only where frequency tolerance checks are recommended by the manufacturer. Next Due:	F/C	36 months
112	Aerials and feeders- VSWR (DME and ATC Transponder), installation (HF). Next Due:	F/C	36 months

**Avionics Auto-Pilot/Stabiliser**

113	Auto-pilot/Stabiliser in all modes including manual override disengagement function	OP/C	Annual
114	Displays, instruments, controllers	INSP	Annual
115	Auto-pilot computer, amplifier, power supply, servo motors, connections to flying control system, automatic trim system, yaw dampers and manometric system inter-connections	INSP	Annual