

CGT50 Post Flight Checklist



CGT50 POST FLIGHT CHECKLIST

VERSION: V 2.0

EFFECTIVE DATE: 3 April 2023

Read & Do

☐ = If Applicable

	1. DETAILS		
1	Tail Number:		
2	Flight Location:		
3	Date:		
4	Time:		
5	Post Flight Checklist Completed By: <i>Technician Name</i>		

2. SAFETY			
1	SIT on GCS	Selected	☐
2	GCS Ignition	Off	☐
3	All Mission Equipment <i>Maintain Battery Power to Keep Aircraft in SIT</i>	Off	☐
4	Engine & Pitot	May be Hot	
5	<i>If SATCOM is Installed, Ensure it is Powered Off Before Approaching the Aircraft for Post-Flight Inspection</i> Technicians Cleared to Approach Aircraft	Clear	☐
6	Aircraft Ignition	Off	☐
7	VTOL Batteries <i>Aircraft to Remain in SIT with Main Power ON until VTOL Batteries are Disconnected</i>	Disconnected	☐
8	Aircraft Power	Off	☐
9	Shore Power <i>Adjust to 14.5 V</i>	Connect	☐

3. AIRCRAFT LANDING WEIGHT			
1	VTOL Batteries	OnBoard Disconnected	☐
2	All Protection Covers <i>Pitot , Propeller , Exhaust</i>	Removed	☐
3	All Service Panels & Covers	In Place	☐
4	Record Aircraft Landing Weight		kg
5	All Protection Covers <i>Pitot , Propeller , Exhaust</i>	Installed Unless Too Hot	☐

4. VTOL BATTERIES			
1	Record VTOL Battery 1 - LH Wing <i>% Capacity & Serial Number</i>		%
			#
2	Record VTOL Battery 2 - LH Wing <i>% Capacity & Serial Number</i>		%
			#
3	Record VTOL Battery 1 - RH Wing <i>% Capacity & Serial Number</i>		%
			#
4	Record VTOL Battery 2 - RH Wing <i>% Capacity & Serial Number</i>		%
			#

5. GENERAL			
1	LH Pitot Tube <i>May be Hot</i>	Undamaged , Clear	☐
2	LH Static Port	Undamaged , Clear	☐
3	RH Pitot Tube <i>May be Hot</i>	Undamaged , Clear	☐
4	RH Static Port	Undamaged , Clear	☐
5	Undercarriage & Tail Rest	Undamaged , Secure	☐
6	Fuselage <i>Lower , LHS , Upper , RHS</i>	Undamaged	☐
7	All Antennas	Secured , Undamaged	☐
8	XT60 Regulator Connection	Disconnect	☐
9	Shore Power <i>Adjust to 14.5 V</i>	Disconnect	☐

6. LH (PORT) WING			
1	Wing <i>Leading Edge , Upper , Trailing Edge , Lower</i>	Undamaged	☐
2	Ailerons (Both) <i>Upper , Trailing Edge , Lower</i>	Undamaged	☐
3	Wing Tip LED	Undamaged	☐
4	Servos	Undamaged	☐
5	Servo Covers <i>Covers 0.3 Nm Torque</i>	Secure	☐
6	Servo Push Rods	Undamaged , Not Bent	☐
7	Servo Arms	Undamaged	☐
8	Servo Arms	No Play Present	☐
9	Control Surface Horns	Undamaged , Secure	☐
10	Pushrod Clips	In Place , Secured	☐
11	Control Surfaces & Hinges	Operate Smoothly No Wear or Damage	☐

7. LH (PORT) VTOL SYSTEM			
1	VTOL Boom <i>Longer Section to the Front Fasteners 5 Nm Torque</i>	Attached , Secure	☐
2	VTOL Motor Assemblies (Both)	Secure & No Loose or Missing Screws	☐
3	VTOL Motor Housing & Windings (Both) <i>Dry Air Only to be Used if Blown Clean</i>	Clean No Dirt, Debris, FOD	☐
4	VTOL Motor Cable Sheaths (Both)	Undamaged , Unfrayed No Cuts or Pinches	☐
5	VTOL ESC Cables	Undamaged , Unfrayed No Cuts or Pinches	☐
6	Vtol ESC Mount Plate	Bonded , Undamaged	☐
7	Propeller Blades <i>Both Motor Assemblies</i>	Undamaged , Secure	☐
8	Propellers FWD Motor	Labelled L or CW	☐
9	Propellers AFT Motor	Labelled R or CCW	☐
10	Both VTOL Motors Tilted Outwards	Confirm	☐

8. VERTICAL STABILISER			
1	Vertical Stabiliser <i>Leading Edge , LHS , Trailing Edge , RHS</i>	Undamaged	☐
2	Rudder <i>LHS , Trailing Edge , RHS</i>	Undamaged	☐
3	Servo	Undamaged	☐
4	Servo Cover <i>Covers 0.3 Nm Torque</i>	Secure	☐
5	Servo Push Rod	Undamaged , Not Bent	☐
6	Servo Arm	Undamaged	☐
7	Servo Arm	No Play Present	☐
8	Control Surface Horn	Undamaged , Secure	☐
9	Pushrod Clips	In Place , Secured	☐
10	Control Surfaces & Hinges	Operate Smoothly No Wear or Damage	☐

9. HORIZONTAL STABILISER			
1	Horizontal Stabiliser <i>Leading Edge , Upper , Trailing Edge , Lower</i>	Undamaged	☐
2	LH Elevator <i>Upper , Trailing Edge , Lower</i>	Undamaged	☐
3	RH Elevator <i>Upper , Trailing Edge , Lower</i>	Undamaged	☐
4	Servos	Undamaged	☐
5	Servo Covers <i>Covers 0.3 Nm Torque</i>	Secure	☐
6	Servo Push Rods	Undamaged , Not Bent	☐
7	Servo Arms	Undamaged	☐
8	Servo Arms	No Play Present	☐
9	Control Surface Horns	Undamaged , Secure	☐
10	Pushrod Clips	In Place , Secured	☐
11	Control Surfaces & Hinges	Operate Smoothly No Wear or Damage	☐

10. PILOT CAMERA			
1	Support & Cover	Undamaged , Secure	☐
2	Camera	Aligned Correctly	☐
3	Camera Lens	Undamaged	☐
4	Camera Lens	Clean	☐
5	Camera Lens	No Fog , Moisture or Residue	☐

11. RH (STARBOARD) WING			
1	Wing <i>Leading Edge , Upper , Trailing Edge , Lower</i>	Undamaged	☐
2	Ailerons (Both) <i>Upper , Trailing Edge , Lower</i>	Undamaged	☐
3	Wing Tip LED	Undamaged	☐
4	Servos	Undamaged	☐
5	Servo Covers <i>Covers 0.3 Nm Torque</i>	Secure	☐
6	Servo Push Rods	Undamaged , Not Bent	☐
7	Servo Arms	Undamaged	☐
8	Servo Arms	No Play Present	☐
9	Control Surface Horns	Undamaged , Secure	☐
10	Pushrod Clips	In Place , Secured	☐
11	Control Surfaces & Hinges	Operate Smoothly No Wear or Damage	☐

12. RH (STARBOARD) VTOL SYSTEM			
1	VTOL Boom <i>Longer Section to the Front</i> <i>Fasteners 5 Nm Torque</i>	Attached , Secure	☐
2	VTOL Motor Assemblies (Both)	Secure & No Loose or Missing Screws	☐
3	VTOL Motor Housing & Windings (Both) <i>Dry Air Only to be Used if Blown Clean</i>	Clean No Dirt, Debris, FOD	☐
4	VTOL Motor Cable Sheaths (Both)	Undamaged , Unfrayed No Cuts or Pinches	☐
5	VTOL ESC Cables	Undamaged , Unfrayed No Cuts or Pinches	☐
6	Vtol ESC Mount Plate	Bonded , Undamaged	☐
7	Propeller Blades <i>Both Motor Assemblies</i>	Undamaged, Secure	☐
8	Propellers FWD Motor	Labelled R or CCW	☐
9	Propellers AFT Motor	Labelled L or CW	☐
10	Both VTOL Motors Tilted Outwards	Confirm	☐

13. MAIN ENGINE			
1	GCS Ignition ☐	Off	☐
2	Aircraft Ignition	Off	☐
3	Cowling ☐	Undamaged , Secure	☐
4	Engine <i>May be Hot</i>	Undamaged	☐
5	Exhaust (Mufflers)	Undamaged Debris Free	☐
6	All Torque Seals	Aligned	☐
7	Propeller & Blade	Secure , Undamaged	☐
8	Propeller	Rotates by Hand	☐
9	Propeller Stall Position <i>Flick X 7 from TDC</i>	Horizontal	☐
10	Propeller Attachment Bolts Torque Seals <i>Remove Spinner to Check</i> <i>Bolts 9.5 Nm Torque</i>	Aligned	☐
11	Spinner	Aligned , Undamaged	☐
12	Spinner Connection Screw	Tight , No Play	☐
13	Standoff , Vibration Mounts	Undamaged , Not Hard No Cracks	☐
14	All Torque Seals	Aligned	☐
15	Fuel Hose	Undamaged No Leaks	☐
16	Spark Plugs & Cables	Undamaged Not Loose Properly Seated	☐
17	Hall Sensor & Wire Harness <i>Check Sensor Position has Not Shifted from Reference Mark</i>	Undamaged	☐
18	Temperature Sensor	Undamaged In Place , Secure	☐

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