

FW Aircraft Checklists

FW Aircraft Untethered Auto Mode Pre-Exercise Checklist (Verbose, raw text)

GCS

Computer at full charge

Computer has mission planner

Computer has functional USB Ports

USB cable functional and packed

Plane

Flight Battery(s) at full charge

Check tail assembly for damage including bending, dings, warpage, and loose glued joints

Check elevator and servo linkage for loose screws, loose glued joints, and cracking on the hinge

Check tail booms for cracks, fraying at ends, or loose glued joints on crossbar

Ensure that the tail booms are tightly secured to the tail.

Check left and right wings for foam damage including bending, dings, warpage, delamination of glued parts, or loose boom attachment points.

Check aileron and servo linkage for loose screws, loose glued joints, and cracking on the hinge

Check the wing spar for cracking or fraying

Check the fuselage for foam damage including bending, crash damage, splitting of seams, and improper fit of the hatch

Check the motor and motor mount to assure both the glue and screws are holding the motor firmly.

Plan flight and save mission file ahead of time if possible

Perform a Pre-Flight Checklist to complete the Pre-exercise checklist

FW Aircraft Untethered Auto Mode Pre-flight Checklist

Assemble airplane

Verify Propeller is installed with propeller hub grooving facing aft

Deploy pitot tube and install cover

Verify 4 thumbscrews tight on wings

Verify 4 thumbscrews tight on tail boom

Flight Battery(s) at full charge

Flight Battery Installed

Verify the hatch is held closed sufficiently by the magnets

CG is correct (slightly nose heavy when balanced on fingertips 3.25" from leading edge)

Place plane on level ground

Power on

Connect using mission planner

Switch to stabilize mode

Verify control surfaces deflect in the correct direction to correct non-level attitudes

Verify zero airspeed ±3m/s

Remove pitot tube cover

Verify GPS lock

Verify zero altitude ±3m

Verify HSI is level when plane is level

Verify compass heading is correct

Upload mission

Readback mission and ensure it is the correct flight plan



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KAIROS FW AIR	CRAFT CHECKLISTS UNTETHERED AUTO MODE	KAIROS FW AIRCRAFT CHECKLISTS UNTETHERED AUTO MODE		
PRE-EXERCISE CHECKLIST				
GCS				
COMPUTER	Packed			
	Full Charge			
	Mission Planner Installed			
	USB Ports Functional			
USB CABLE	Packed			
	Functional			
FLIGHT PLAN	Completed			
	Saved on computer	Ī		
AIRPLANE				
FLIGHT BATTERY	Full charge			
STABILIZERS	Screws and glue secure			
	Foam undamaged	Ī		
	Elevator hinge not cracking			
TAIL BOOMS WINGS	Screws and glue secure			
	Carbon fiber undamaged			
	Glued joints secure	_		
	Aileron hinges not cracking			
SERVOS	Linkages and horns undamaged			
	Screws and glue secure			
WING SPAR	Carbon fiber undamaged			
FUSELAGE	Foam and seams undamaged			
	Hatch fits securely			
MOTOR	Motor and mount are rigidly affixed			
PROP	Facing correct direction	1		
	Torqued sufficiently			
	PRE-FLIGHT CHECKLIST	+		
AIRPLANE	Fully assemble	T		
PROP	Facing correct direction	-		
	Torqued sufficiently			
PITOT TUBE	Deploy			
WING THUMBSCREWS	All 4 tightened			
TAIL BOOM THUMBSCREWS	All 4 tightened	-		
FLIGHT BATTERY	Verify full charge	ŀ		
TEIGHT DATTER!	Install	ŀ		
натсн	Install	ŀ		
	Verify good closure	-		
CG	3.25" from leading edge	ı		
AIRPLANE	Place on level ground	ŀ		
	Power on	ŀ		
MISSION PLANNER	Connect to plane	-		
INITED IN PLAININER	Switch to stabilize mode			
CONTROL SUBFACES				
CONTROL SURFACES	Verify throws by holding plane at level and unlevel attitudes			
PITOT TUBE	MP shows zero airspeed ±3m/s	4		
000	Remove Cover	ļ		
GPS	MP shows 3D fix or 3D dgps			
HSI	MP shows attitude correctly			
COMPASS	Heading correct			
	Upload mission			
MISSION PLANNER	Verify mission intent and programming	-		