

 ATEC v.o.s., Czech Republic, www.atecaircraft.eu		PROCEDURES BEFORE ENTERING COCKPIT		PROCEDURES AFTER ENGINE START-UP		PROCEDURES AFTER TAKE-OFF		OPERATING LIMITS			
		Master Switch	OFF	Start Power (position)	set for "FLIGHT"	Flaps position	RETRACT	Engine Speed			
Rescue System	LOCKED	RPM	SET (approx. 2000 rpm)	Throttle	ADJUST	Max. Take-Off RPM:	5800	for max. 5min.			
Pedals position	ADJUST	Oil pressure	CHECK (wait for 3 bar)	Propeller (el. prop.)	SET FOR CRUISE	Max. continuous RPM:	5500				
Seats position	ADJUST	RPM	INCREASE SLOWLY (over 2500 rpm for 5 sec.)	Fuel Pump (Aux.)	SWITCH OFF (1000 ft GND)	Cruising RPM:	4800				
		Ampermeter	CHECK BATTERY CHARGING	Brakes	ON	Idle RPM:	app. 1400				
CHECKLIST		PROCEDURES AFTER ENTERING COCKPIT		EMS Indicator	NO WARNING LIGHTS	Time of Take-Off	NOTE				
ATEC 321 FAETA NG		Canopy - Both Locks	LOCK	RPM	DECREASE (to 2000 rpm)			Oil Temperature			
Engine: ROTAX 912 IS Sport		Rescue System	UNLOCK	WARM UP at 2000 rpm for approx. 2 min. Increase engine speed up to 2500 rpm. Continue warming up until reaching oil. temp. >50°C		APPROACH AND LANDING		Min. - Max.	50 - 120°C		
		Seatbelts	FASTEN			Radio	SET	Operating:	90 - 110°C		
		Brakes (parking)	ON			Flight instruments	CHECK				
PRE-FLIGHT INSPECTION		Foot-operated Steering	FREE	ENGINE CHECK		1st downwind turn	FLAPS I. (130km /70kt)	Oil Pressure			
NOSE		Hand-operated Steering	FREE	Brakes	ON	2nd downwind	FLAPS II. (110 km/h /59kt)	Minimum:	0,8 bar	<3500 rpm	
Engine and Mount Condition	CHECK	Flaps Control	CHECK	Throttle	4000 RPM	Base Leg	FLAPS II. (110 km/h /59kt)	Maximum (short time,cold start):	7,0 bar		
Fuel, Oil, Cooling System Hose	INTACT	Instruments Condition	CHECK	LANE A	SWITCH OFF / ON	Final	FLAPS III. (90 km/h /49kt)	Operating:	2,0-5,0 bar	>3500 rpm	
Propeller/Cone surface, tightness	CHECK	Fuel Level Indicator	CHECK	(max. RPM drop < 180 RPM)		Propeller (el. prop.)	set for "TAKE-OFF"				
Oil Quantity	CHECK	Throttle	IDLE	LANE B	SWITCH OFF / ON	Throttle	IDLE	Fuel Pressure			
Engine Cowling	CHECK			(max. RPM drop < 180 RPM)		Brakes	OFF	Min. - Max.	2,8 - 3,2 bar		
Landing Light	CHECK	PROCEDURES BEFORE ENGINE START-UP		Throttle	IDLE	Touch-down at 70 km/h /38kt					
Air Inlets	CLEAR	Fuel Valve	SELECT	Fuel tanks (L/R)	SWITCH OVER AND CHECK	Flaps position	RETRACT	Coolant Temperature			
		Throttle	50% OPEN	Fuel Pumps (Main/Aux.)	SWITCH OVER AND CHECK	Brakes	ON	Min. - Max.	50 - 120°C		
WINGS		Master Switch	ON	(alternating switch-over at 2000 rpm; no drop below 2,8 bar)		Landing Dist. (15m obstacle): approx. 300 m					
Clearance in attachment (no tolerance)	CHECK	Start Power (position)	set for "START"	Engine Power	FULL POWER	Landing Dist. (after touch-down): approx. 150 m		Fuel Capacity:			
Leading Edge	CHECK	Back-up Battery	OFF	(shall reach 5000 RPM in 10 sec.)				Fuel reserve (indicator ON) 5 L			
Wingtip/Lights	CHECK	LANE A	ON	Throttle	IDLE	AFTER LANDING					
Ailerons/Flaps Clearance, Movement, Hinge	CHECK	LANE B	ON			Brakes	ON	Air Speeds (IAS)*			
Pitot Tube, Vent. holes	CLEAR	Fuel Pump (Main)	ON	PROCEDURES BEFORE TAKE-OFF		If engine is not cooled down before stop, keep cooling run for minimum 2 min. (approx. 2000 rpm)		Never exceed sp. V _{NE} :	290	157	
Fuel Quantity/Caps closed	CHECK	Fuel Pump (Aux.)	OFF	Throttle	IDLE	cooling run for minimum 2 min. (approx. 2000 rpm)		Design manoeuvre sp. V _A :	167	90	
Drain plugs	LOCKED	EMS	ON	Pedals (free travel)	CHECK	1.Switch-off all switches step-by-step EXCEPT: LANE A and B, Fuel Pump, Master Switch		Max. cruising sp. V _C :	248	134	
		EMS Indicator	CHECK	Control stick (free travel)	CHECK	2.Switch-off LANE A and B, Fuel Pump and Master Switch		Max. in severe turb. V _{RA} :	240	130	
FUSELAGE		(no warning lights; operating fuel press. 3 bar)		Fuel Pumps (Main/Aux.)	BOTH ON			Best climbing sp.:	110	59	
Surface and Condition	CHECK			EMS (values)	CHECK			Max. sp. flaps I. (10°), V _{FE,I} :	130	70	
Elevator/Rudder Clearance, Movement, Hin	CHECK	ENGINE START-UP		LANE A/B	BOTH ON	Fuel Valve		KEEP OPEN	Max. sp. flaps II. (20°), V _{FE,II} :	120	65
Canopy	CHECK	Press Start Button and hold until reaching	Back-Up Battery	OFF				Max. sp. flaps III. (35°), V _{FE,III} :	110	59	
Antennas	CHECK	1500 RPM or more (hold for max. 10 sec.)	Flaps Position	I.		FUEL TYPE		Recom. speed flaps III.	90	49	
		EFIS	ON	Start Power (position)	FLIGHT	unleaded petrol min. octane no. RON 95,97		Stall speed, flaps retr. V _{S1} :	73	39	
LANDING GEAR/NOSE GEAR		Flaps (el. switch)	ON	Propeller (el. prop.)	SET FOR TAKE-OFF	MOGAS EN228 (Super or Super Plus), ethanol free		Stall speed, flaps III. V _{S0} :	54	29	
Clearance in attachment (no tolerance)	CHECK	Radio	ON	Trim	SET			Climb in the rain:	120	65	
Covers/Tyres/Pressure	CHECK	Transponder	ON	Fuel indicator (fuel level)	CHECK			Cruise in the rain:	120-180	65-97	
Brakes	CHECK	GPS	ON	Radio	SET	OIL TYPE		Descending to land (rain):	110	59	
		Strobes	ON	Altimeter	SET	RON with 424 classification or AeroShell Sport Plus 4 10W-40		(flaps position I. or II.)			
EQUIPMENT		Dismisting fan (recommended)	ON	QNH	SET						
Licences (pilot, airplane)	ON BOARD			GPS	SET			Load Factors*			
Log Book, Manuals	ON BOARD			Canopy	LOCKED	COOLANT TYPE		Max. positive	+5,05 G		
ICAO Maps	ON BOARD			Seat Belts	FASTENED	Conventional with water (mix ratio 1:1)		Max. negative	-3,05 G		
First Aid Pack	ON BOARD			Brakes	OFF			<i>*values for MTOW 472,5 kg</i>			