CHECKLIST

ATEC 321 Faeta

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Procedures Before Entering Cockpit

Main Swith, Ignition	OFF
Nose	
Engine Condition	Check
Fuel, Oil, Cooling System Hoses	Intact
Propeller surface, propeller cone	Check
Oil quantity	Check
Engine cover	Check
Landing Light	Check
Air Inlets	Clear
Wings	
Leading edge	Check
Wingtip/Lights	Check
Ailerons / Flaps Clearences, Movements, Hinges, Connections	Check
Pitot Tube	Clear
Fuel Quantity / Cap	Check
Fuselage	
Surface and State	Check
Elevator / Rudder Clearences, Movements, Hinges, Connections	Check
Canopy	Check
Antennas	Check
Landing gear / Nose gear	
Cover / Tyres / Pressure	Check
Equipment	
Licences Pilot, Plane	On Board
Board Book, Flight Book	On Board
Fuel Tank Key	On Board
ICAO Maps	On Board
Cap, Sunglases	On Board

Procedures After Entering Cockpit

Foot Operated Controls	Check
Hand Operated Controls	Check
Flaps	Check
Seatbelts	Fasten
Canopy	Close
Rescue System	Unlock

Procedures Before Start Up

Brakes	Set
Throttle	Idle
Fuel Selector	Left Tank
Choke if engine is cold	ON
Dynon	ON
Other Avionics	OFF
Carb Heat	OFF
Variable Pitch Propeller	Set
Main Switch	ON
ACL	ON
Check Fuel Pump	ON/OFF
Pull up the Control Stick	Pull

Start the Engine

Start	
Oil Pressure	Check
Choke	OFF
Avionics	ON
Engine Instruments	Check
Radio, Frequency	Set
Transponder	Set
QNH / Altitude	Set
Warm up at 2000rpm to >50°C oil temperature	

Before Take Off

Engine Ignition Check: 4000 rpm, switch ignition circuits	Drop <300rpm
Fuel gauge indicator	Check
Electric Fuel Pump	ON
Flaps Position °I	Set
Trim	Set
Starting Light	ON

After Takeoff

Flaps	UP
Reduce Throttle	Set
Variable Pitch Propeller	Set
Electric Fuel Pump	OFF
Starting Light	OFF
Time of Takeoff	Note

Approach

Approach Briefing	Complete
Flight instruments	Check
Radio	Set
Landing light	ON
Electric Fuel Pump	ON
Fuel Selector	Left Tank
Flaps	I, II, III
Trim	Set
Airspeed final	~ 90 km/h

After Landing

Flaps	UP
Electric Fuel Pump	OFF
Transponder	STBY
Landing Light, ACL	OFF
Avionics	OFF
Ignition	OFF
Main Switch	OFF
Board Book	Note
Flight Book	Note
Fuel	Check
Rescue System	Lock
Key	Put off

Fuel Type

Unleadeed petrol of minimum octane number RON 95, 97. Fuel capacity 2x 50l.

Oil Type

Any branded oil for 4 stroke motorcycle engines with gearbox additives. Power class API SF, SG+GL4 or GL5.

AeroShell Sport Plus 4 10W-40

Operational Limits

Engine Speed

Max. takeoff speed	5800 RPM max 5 Min
Max. continous speed	5500 RPM
Cruising speed	4800 RPM
Engine idle speed	~1400 RPM

Oil Temperature

Minimum - Maximum	50 - 130°C
Operational optimum	90 - 110°C

Cylinder Head Temperature

Minimum - Maximum	60 - 135°C

Oil Pressure

Max. short time cold start	7.0 bar
Minimum	0,8 bar <3500 RPM
Operational	2-5 bar >3500 RPM

Fuel Pressure

Minimum - maximum	0,15 – 0,4 bar

Air Speeds

Never exceed speed, V_{NE}	275 km/h … 159 kt
Design manoeuvre sp., V_A	165 km/h … 89 kt
Max. design cruising sp., V_C	227 km/h …123 kt
Max. at severe turb., V_{RA}	225 km/h … 97 kt
Best climbing speed	110 km/h … 59 kt
Max. sp. flaps I (10°), $V_{FE,I}$	130 km/h … 70 kt
Max. sp. flaps II (20°), $V_{FE,II}$	120 km/h … 65 kt
Max.sp. flaps III (35°), $V_{FE,III}$	110 km/h … 59 kt
Recomm.sp.flaps III, V_{FE}	90 km/h … 49 kt
Stalling sp.flaps retract., V_{S1}	64 km/h …35 kt
Stalling speed flaps III, V_{S0}	51 km/h … 28 kt
Climbingspeed in the rain	120 km/h … 65 kt
Cruisingspeed in the rain	120-180 km/h 65-97 kt
Descendingspeed to land in the rain	110 km/h ... 59 kt flaps I or II

Load Factors

Max. positive	+ 5,1 G
Max. negative	- 2,0 G